CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 75256 S6

DRAFT FINAL PRINTED LABELING

(desogestrel and ethinyl estradiol) Ta

PATIENTS SHOULD BE COUNSELED THAT THIS PRODUCT DOES N AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTE

R only

DESCRIPTION

Apri 28 and 21 Day Regimen bitster cards for desogestrel and ethinyl estradiol tablets provide an oral contraceptive regimen of 21 round rese-colored tablets. Each rose-colored "active" desogestrel and ethinyl estradiol tablet for oral administration contains 0.15 mg desogestrel (13-ethyl-11- methylene-18,19-dinor-17 alpha-pregn-4-n-20-yn-17-di) and 0.03 mg ethinyl estradiol (19-nor-17 alpha-pregn-13,5 (10)-trien-20-yn-3,17-diol). Inactive ingredients include cotolidal siricon dioxide, FD&C Blue No. 2 Aluminum Lake, FD&C Red No. 40 Aluminum Lake, hydroxypropyl methylcel-luiose, lactose monohydrate, polyethylene glycol, polysorbate 80, povidone, pregeta-tinized starch, stearch acid, titanium dioxide, and vitamin E. Apri 28 Day Regimen bitster cards also contain 7 white "inactive" tablets for oral administration, containing the following inactive ingredients: lactose anhydrous, magnesium stearate, microcrystalline cellulose and pregetatinized starch.

DESOGESTREA ETHINYL ESTRADIOL C22H300 M.W.: 310.48 M.W: 298.41. C20H24O2

CLINICAL PHARMACOLOGY

Pharmacodysamiles? Combination and contraceptives act by suppression of gonadotropins. Although the primary mechanism of this action is inhibition of ovulation, other atterations include changes in the cervical mucus, which increase the difficulty of sperm entry into the uterus, and changes in the endometrium which reduce the likelihood of implantation. Receptor binding studies, as well as studies in arimals and humans, have shown that 3-keto-desogestre, the biologically active metabolitis of desogestre, combines high progestational activity with minimal infirms androgenicity (91,92). Desogestrel in combination with ethinyl estradiol, does not counteract the estrogen-induced increase in SHBG, resulting in lower serum levels of free testosterone (96-99).

Ossogestrel is rapidly and almost completely absorbed and converted into 3-keto-desogestrel, its biologically active metabolita. Following onal administration, the relative bioavailability of desogestrel, as measured by earum levels of 3-keto-desogestrel, is approximately 84%

bioavaiability of desogestrel, as measured by sarum levels of 3-keto-desogestrel, is approximately 84%. In the third cycle of use after a single desogestrel and ethinyl estradiol tablet, maximum concentrations of 3-keto-desogestrel of 2,806 s. 1,203 pg/mt. (meansSD) are reached at 1,449.8 hours. The area under the curve (AUC₂₀₋₁ is 33,858-11,043 pg/mt. In atter a single dose. At steady state, attained from at least day 19 onwards, maximum concentrations of 5,840.1,667 pg/mt. are reached at 1,449.9 hours. The minimum plasmal levels of 3-keto-desogestrel at steady state is 52,299.217,878 pg/mt. • hr. The mean AUC₂₀₋₁ for 3-keto-desogestrel at steady state is 52,299.217,878 pg/mt. • hr. The mean AUC₂₀₋₁ for 3-keto-desogestrel at state influence of 3-keto-desogestrel at state and 1,449.9 hours. This indicates that the kinetics of 3-keto-desogestrel are non-linear due to an increase in binding of 3-keto-desogestrel to sex hormone-binding globulin levels microsad significantly in the third treatment cycle from day 1 (150.64 nmol/L) to day 21 (230.59 nmol/L). The elimination half-life for 3-keto-desogestrel is approximately 38.20 hours at steady state. In addition to 3-keto-desogestrel, other phase I metabolitiss are 3-c-0-t-desogestrel, 38-OH-desogestrel, and 3c-OH-5c-H-desogestrel. These other metabolities are not known to have any pharmacologic effects, and are further converted in part by conjugation (phase II metabolitism) into polar metabolitise, mainly sulfates and glucuroridas. Ethinyl estradiol is rapidly and almost completely absorbed. In the third cycle of use after a single desogestrel and ethinyl estradiol tablet, maximum approximately 83%. In the third cycle of use after a single desogestrel and ethinyl estradiol tablet, maximum approximately 83%.

approximately 83%. In the third cycle of use after a single desogestral and ethinyl estractiol tablet, maximum concentrations of ethinyl estractiol of 95-34 pg/ml. are reached at 1.5±0.8 hours. The AUC__ is 1.471±288 pg/ml. * In after a single dose. At steady state, attained from at least day 19 onwards, maximum ethinyl estractiol concentrations of 141±48 pg/ml. are reached at about 1.4±0.7 hours. The minimum serum levels of ethinyl estractiol at steady state are 24±8.3 pg/ml. The AUC__ at steady state is 1,117±302 pg/ml. * In the mean AUC__ to ethinyl estractiol at occasion of the state of the s

INDICATIONS AND USAGE

Apri (desogestret and ethinyl estradiol) Tablets are indicated for the prevention of preg-Apri (desogestret and eminy) estradion) Tablets are indicated for the prevention of prepinancy in women who elect to use ord contraceptives as a method of contraception. Oral contraceptives are highly effective. Table I lists the hybical accidental pregnancy rates for users of combination oral contraceptives and other methods of contraception. The efficacy of these contraceptive methods, except steritization, depends upon the reliability with which they are used. Correct and consistent use of these methods can result in linear faither makes. in lower failure rates.

TABLE I: LOWEST EXPECTED AND TYPICAL FABLURE RATES DURING THE FIRST YEAR OF CONTINUOUS USE OF A METHOD % of Women Experiencing an Accidental Programmy in the First Year of Continuous Use

Method	Lowest Expected*	Typical**	
(No Contraceptive)	(85)	(85)	
Oral Contraceptives	\\	3	
combined	0.1	ŇA***	
progestin only	0.5	N/A***	
Diaphragm with spermicidal	*.*		
cream or jetly	` 6	18	
Spermicides alone (foams,	•		
creams, gets, jettles, vaginal		•	
suppositories, and vaginal film)	6	21	
Vaginal Sponge	•		
nulliparous	9	18	
parous	20	36	
implant .	0.09	0.09	
Injection; depot		0.00	
medroxyprocestarone acetata	0.3	0.3	
IUD			
progesterone	1.5	2.0	
copper T 380A	0.6	0.8	
Condom without spermicides			
female	5 3	21	
maie	3	12	
Cervical Cap with spermicidal			
cream or jelly			
nullearous	9	18	
parous	26	38	
Periodic abstinence			
(all methods)	1-9	20	
Female sterilization	0.4	0.4	
Male sterifization	0.10	0.15	

Adapted from RA Hatcher et al., Table 5-2,(1994) ref. #1.

- *The authors' best guess of the percentage of women expected to experience an accidental pregnancy among couples who initiate a method (not necessarily for the first time) and who use it consistently and correctly during the first year if they do not stop for any other reason.
- "This term represents "typical" couples who initiate use of a method (not necessarily for the first time), who experience an accidental pregnancy during the first year if they do not stop use for any other reason.
- *** N/A -- Data not available.

In a clinical trial with desogestral and ethinyl estradiol tablets, 1,195 subjects completed 11,656 cycles and a total of 10 pregnancies were reported. This represents an over-all user-efficacy (typical user-efficacy) pregnancy rate of 1,12 per 100 women-years. This rate includes patients who did not take the drug correctly.

CONTRAMOICATIONS

Oral contraceptives like Apri tablets should not be used in women who currently have

- Oral contraceptives title Apri tacress should not be used in the following conditions:

 Thrombophiebitis or thromboembotic disorders

 A past history of deep veni thrombophiebitis or thromboembotic disorders

 Cerebral vascular or coronary array disease

 Known or suspected carcinoma of the breast

 Carcinoma of the endometrium or other known or suspected estrogen-dependent dent neoplasia
 - Undiagnosed abnormal genital bleeding
 - Cholestatic jaundice of pregnancy or jaundice with prior pill use Hepatic adenomas or carcinomas
 - · Known or suspected pregnancy

WARNINGS

Cigarette smoking increases the risk of serious cardiovascusar side effects from oral contraceptive size. This risk increases with age and with heavy smoking (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Women who are eral contraceptives should be strongly advised not to smaller.

The use of oral contraceptives is associated with increased risks of several serious con-The use or oral compareprives is association with increased risks of several serious conditions including myocardial infarction, thromboembolism, stroke, hepatic neoplasia, and gallbladder disease, although the risk of serious morbidity or mortality is very small in healthy women without underlying risk factors. The risk of morbidity and mortality increases significantly in the presence of other underlying risk factors such as hypertension, hyperlipidemias, obesity and diabetes.

tension, hyperlipidemias, obesity and diabetes. Practitioners prescribing oral contraceptives should be familiar with the following information relating to these risks.

The information contained in this package insert is principally based on studies carried out in patients who used oral contraceptives with formulations of higher doses of estrogens and progestogens than those in common use today. The effect of long term use of the oral contraceptives with formulations of lower doses of both estrogens and progestogens remains to be determined. Throughout this labeling, epidemiological studies reported are of two types: retrospective or case control studies and prospective or cohort studies. Case control studies provide a measure of the relative risk of a disease, namely, a ratio of the incidence of a disease among oral contraceptive users to that among nonusers. The relative risk does not provide information on the actual clinical occurrence of a disease. Cohort studies provide a measure of attributable risk, which is the difference in the incidence of disease between oral contraceptive users and nonusers. The attributable risk does provide between oral contraceptive users and nonusers. The attributable risk does provide information about the actual occurrence of a disease in the population (Adapted from



iblets

IOT PROTECT ED DISEASES.

Mfd. by: DURAMED CINCINNAT



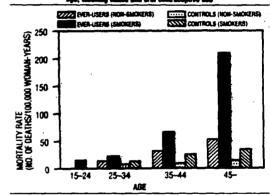
efs. 2 and 3 with the author's permission). For further information, the reader is 18. 2 BIO 3 WILL US GUILLE B PRITISSENTY, FOR THE USE HITCHISSENT, ON fistred to a fixed on epidemiological methods.

1. THROMBOEMBOLIC DISORDERS AND OTHER VASCULAR PROBLEMS

An increased risk of mencertial infersion has been attributed to oral contraceptive use. This risk is primarily in smokers or women with other underlying risk factors for coronary artery disease such as hypertension, hypercholes-terolemia, morbid obesity, and diabetes. The relative risk of heart attack for current oral contracaptive users has been estimated to be two to six (4-10). The risk is very low in women under the age of 30.

Smoking in combination with oral contraceptive use has been sh tribute substantially to the incidence of myocardial infarctions in women in, their mid-fluttes or older with smolding accounting for the majority of excess cases (11). Mortality rates associated with circulatory disease have been shown to increase substantially in smolars, especially in those 35 years of age and older among women who use oral contraceptives. (See Table II)

TABLE It: Circulatory disease searbility rates per 100,000 women-years by ago, smalting states and oral contraceptive use



(Adapted from P.M. Layde and V. Beral. ref. #12.)

Oral contraceptives may compound the effects of well-known risk factors, such as hypertension, dispetes, hypertipidentias, age and obesity (13). In particular, some progestopens are known to decrease HDL cholesterol and cause glucose intolerance, while estrogens may create a state of hyperinsulinism (14-18). Oral contraceptives have been shown to increase blood pressure among users (see section 9 in Warnings). Similar effects on risk factors have been associated with an increased risk of heart disease. Oral contraceptives must be used with caution in women with cardiovascular disease risk factors. Desogestre has minimal androgenic activity (See CLINICAL PHARMACOLOGY), and there is some evidence that the risk of myocardial infarction associated with oral contraceptives is lower when the progestogen has minimal androgenic activity than when the activity is greater (100).

b. Thromboembolism

b. Thromboembolism
An increased risk of thromboembolic and thrombotic disease associated with the use of oral contraceptives is well established. Data from case-control and cohort studies report that oral contraceptives containing desogestrel (Apri (desogestrel and sthinyl estrediol) Tablets contain desogestrel) are associated with a two-fold increase in the risk of venous thromboembolic disease as compared to other low-dose (containing less than 50 mcg of estrogen) pills containing other progestins. According to these studies, this two-fold risk increases the yearly occurrence of venous thromboembolic disease by about 10-15 cases per 100,000 women.
Earlier case control studies on older formutations have found the relative risk of users compared to nonusers to be 3 for the first episode of superficial venous thrombosis, 4 to 11 for deep vein thrombosis or pulmonary embolism, and 1.5 to 6 for women with predisposing conditions for venous thrombosis-notic disease (2.3.19-24). Cohort studies have shown the relative risk to be somewhat lower, about 3 for new cases and about 4.5 for new cases requiring hospitalization (25). The risk of thromboembolic disease associated with oral contraceptives is not related to length of use and disappears after pill use is stopped (2).
A two- to four-fold increase in relative risk of post-operative thromboembolic.

stopped (4). A two- to four-fold increase in relative risk of post-operative thromboembolic complications has been reported with the use of oral contraceptives (9). The relative risk of venous thromboeks in women with one predisposing conditions is two that of women without such medical conditions (26). If feasible, oral contraceptives should be discontinued at least four weeks prior to and for

two weeks after elective surgery of a type associated with an increase in risk of thromboembolism and during and following prolonged immobilization. Since the immediate postpartum period is also associated with an increased risk of thromboembolism, oral contraceptives should be started no earlier than four weeks after delivery in women who elect not to breast feed.

c. Cerebrovascular di

Certain overscount unseessor Oral contraceptives have been shown to increase both the relative and attrib-utable risks of cerebrovascular events (thrombotic and hemorrhagic strokes), dates lose or centroverscale remains (ununiform and remain integer subset), although, in general, the risk is greatest among older (> 35 years), hypertensive women who also smoke. Hypertension was found to be a risk factor for both users and nonusers, for both types of strokes, and smoking interacted to

both users and nonusers, for both types of strokes, and smoking interacted to increase the risk of stroke (2-29).

In a large study, the relative risk of thrombodic strokes has been shown to range from 3 for normotansive users to 14 for users with severe hypertension (30). The relative risk of hemorrhagic strokes is reported to be 1.2 for non-smokers who used oral contraceptives, 7.6 for smokers who used oral contraceptives, 1.8 for normotensive users and 25.7 for users with severe hypertension (30). The attribution is not oral contraceptive is not oral contraceptives, 1.8 for normotensive users and 25.7 for users with severe hypertension (30). The attribution to lead or reserved in older severes (41). utable risk is also greater in older women (3).

Dose-related risk of vascular disease from oral contraceptives

A positive association has been observed between the amount of extrogen and A positive association has been observed between the amount of estrogen and progestogen in oral contraceptives and the risk of vascular disease (31-33). A decline in serum high density lipoproteins (HDU) has been reported with many progestational agents (14-16). A decline in serum high density lipoproteins has been associated with an increased incidence of ischemic heart disease. Because estrogens increase HDL cholesterol, the nat effect of an oral contraceptive depends on a batance achieved between doses of estrogen and progestogen and the nature and absolute amount of progestogens used in the choice of an oral contraceptives. The amount of both hormones should be considered in the choice of an oral contraceptive. The mount of both hormones should be considered in the choice of an oral contraceptive. The amount of both hormones which work the considered in the choice of an oral contraceptive. The emount of both hormones which work the least amount of estrogen and progestogen that is compatible with a low taking rate and the needs of the individual patient. New acceptons of oral contraceptive agents should be started on preparatione containing 0.035 mg or less of estrogen:

Persistence of risk of vascular disease

e. Persistence of risk of vascular disease

Persistence of risk of vascular disease. There are two studies which have shown persistence of risk of vascular disease for ever-users of oral contraceptives. In a study in the United States, the risk of developing myocardial infarction after discontinuing onal contraceptives persists for at least 9 years for women 40-49 years old who had used onal contraceptives for five or more years, but this increased risk was not demonstrated in other age groups (8), in another study in Great Britain, the risk of developing cerebrovascular disease persisted for at least 6 years after discontinuation of oral contraceptives, although excess risk was very small (34). However, both studies were performed with oral contraceptive formulations containing 0.050 mg or higher of estrogens.

ESTIMATES OF MORTALITY FROM CONTRACEPTIVE LISE

ESTIMATES OF MORTALITY FROM CONTRACEPTIVE USE

One study gathered data from a variety of sources which have estimated the mortality rate associated with different methods of contraception at different ages (Table III). These estimates include the combined risk of dash associated with contraceptive methods plus the risk attributable to pregnancy in the event of method failure. Each method of contraception has its specific benefits and risks. The study concluded that with the exception of oral contraceptive users 35 and older who smoke and 40 and older who do not smoke, mortality associated with all methods of birth control is low and below that associated with criticibirth. The observation of an increase in risk of mortality with age for oral contraceptive users is based on data gathered in the 1970's (35). Current clinical recommendation involves the use of lower estrogen dose formulations and a careful consideration of risk factors. In 1989, the Fertility and Maternal Health Drugs Advisory Committee was asked to review the use of oral contraceptives in women 40 years of age and over. The Committee concluded that atthough cardiovascular disease risk may be increased with oral contraceptive use after age 40 in healthy non-smoking women (even with the newer low-dose formulations), there are also greater potential health risks associated with pregnancy in older women and with the atternative surgical and medical procedures which may be necessary if such women do not have access to effective and acceptable means of contraception. The Committee recommended that the benefits of low-free certilities are recommended to the preference of the contraception. means of contraception. The Committee recommended that the benefits of low-dose oral contraceptive use by healthy non-emoking women over 40 may out-weigh the possible risks.

weaps the plussure risks.

Of course, older women, as all women who take one contraceptives, should take an oral contraceptive which contains the least amount of estrogen and progesto-gen that is compatible with a low failure rate and individual patient needs. (See table below.

TABLE III: AMMUAL MUMBER OF BRITH-RELATED OR METHOD-RELATED DEATHS ASSOCIATED WITH CONTROL OF FERTILITY PER 100,000 NON-BTERKLE WOMEN, BY FERTILITY CONTROL METHOD ACCORDING TO AGE

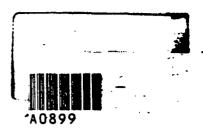
Method of control and outcome	15-19	29-24	25-25	39-34	35-39	40-44
No fertility control methods*	7.0	7.4	9.1	14.8	25.7	28.2
Oral contraceptives non-smoker**	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives smoker**	2.2	3.4	6.6	13.5	51.1	117.2
IUD**	0.8	0.8	1.0	1.0	1.4	1.4
Condom*	1.1	1.6	0.7	0.2	0.3	0.4
Diaphragm/spermicide*	1.9	1.2	1.2	1.3	2.2	2.8
Periodic abstinence*	2.5	1.6	1.6	1.7	2.9	3.6

- * Deaths are birth related ** Deaths are method related

(Adapted from H.W. Ory, ref. #35.)

CARCINOMA OF THE REPRODUCTIVE ORGANS AND BREASTS

CARCINOMA OF THE REPRODUCTIVE ORGAMS AND BREASTS Numerous epidemiological studies have been performed on the incidence of breast, endometriat, ovarian and cervical cancer in women using oral contracep-tives. While there are conflicting reports most studies suggest that the use of oral contraceptives is not associated with an overall increase in the risk of developing breast cancer. Some studies have reported an increased relative risk of developing breast cancer, particularly at a younger age. This increased relative risk appears to be related to duration of use (36-43, 79-89).



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Some studies suggest that oral contraceptive use has been associated with an increase in the risk of cervical intraepithelial neoplastic in some populations of women (45-49). However, there continues to be controversy about the extent to which such findings may be due to difference in sexual behavior and other fac-

HEPATIC NEOPLASIA

HEPATIC NEOPLASIA

Benigh hepatic adenomas are associated with oral contraceptive use, although the incidence of benigh tumors is rare in the United States, Indirect calculations have estimated the attributable risk to be in the range of 3.3 cases/100,000 for users, a risk that increases after four or more years of use especially with oral contraceptives of higher dose (49). Rupture of rare, benigh, hepatic adenomas may cause death through intra-abdominal hemorrhage (50,51).

Studies from Britain have shown an increased risk of developing hepaticellular carcinoma (32-54) in long-term (-8) years) oral contraceptive users. However, these cancers are rare in the U.S. and the attributable risk (the excess incidence) of liver cancers in oral contraceptive users approaches less than one per million users.

OCULAR LESIONS

users.

There have been clinical case reports of retinal thrombosis associated with the use of oral contraceptives. Oral contraceptives should be discontinued if there is unexplained partial or complete loss of vision; onset of proptosis or diplopiar, papiledema; or retinal vascular lesions. Appropriate diagnostic and therapeutic measures should be undertaken immediately.

ORAL CONTRACEPTIVE USE BEFORE OR DURING EARLY PREGNANCY Extensive epidemiological studies have revealed no increased risk of birth defects in women who have used oral contraceptives prior to pregnancy (56-57). The majority of recent studies also do not indicate a teratogenic effect, particularly in so far as cardiac anomalies and limb reduction defects are concerned (55, 56, 58, 59), when oral contraceptives are taken inadvertirely during early pregnancy. The administration of oral contraceptives in induce withdrawel bleeding should not be used as a test for pregnancy. Oral contraceptives should not be used during pregnancy to treat threatened or habitual abortion.

It is recommended that for any patient who has missed two consecutive periods, pregnancy should be ruled out before continuing oral contraceptive use. If the patient has not adhered to the prescribed schedule, the possibility of pregnancy should be discontinued until pregnancy is ruled out:

should be discontinued until pregnancy is ruled out GALLBLADDER DISEASE

GALLELANDER VISEASE Earlier studies have reported an increased lifetime relative risk of gallbladder surgery in users of oral contraceptives and estrogens (80,61). More recent stud-ies, however, have shown that the relative risk of developing gallbladder disease among oral contraceptive users may be minimal (82-64). The recent findings of minimal disk may be related to the use of oral contraceptive formulations con-

taining lower hormonal doses of estrogens and progestogens. CARBOHYDRATE AND LIPID METABOLIC EFFECTS

CARBONYORATE AND LIPID METABOLIC EFFECTS
Oral contraceptifies have been shown to cause a decrease in glucose tolerance in a significant percentage of users (17). This effect has been shown to be directly related to estrogen-dose (65). In general, progestopens increase insulin resistance, this effect varying with different progestational agents (17,66). In the nondiabetic woman, oral contraceptives appear to have no effect on tasting blood glucose (67). Because of these demonstrated effects, pre-diabetic and diabetic women should be carefully monitored while taking oral contraceptives.

tracepièse.

A small proportion of women with have persistent hypertriglyceridentia while on the pill. As discussad earlier (see WARRIMGS 1.a. and 1.d.), changes in serum triglycerides and Upoprotein levels have been reported in oral contraceptive users. ELEVATED BLOOD PRESSURE

An increase in blood pressure has been reported in women taking oral contraceptives (68) and this increase is more tilely in older oral contraceptive users (69) and this increase is more tilely in older oral contraceptive users (69) and this contraceptive in the 615.

and with extended duration of use (61).

Data from the Royal College of General Practitioners (12) and subsequent randomized trials have shown that the incidence of hypertension increases with

domized trials have shown that the incidence of hypertension increases with increasing propestational activity. Women with a history of hypertension or hypertension-related diseases, or renal disease (70) should be encouraged to use another method of contraception. If women elect to use one contraceptives, they should be monitored diseasy and is significant elevation of blood pressure occurs, oral contraceptive should be dis-continued. For most women, elevated blood pressure will return to normal after stopping oral contraceptives (69), and there is no difference in the occurrence of hypertension among former and never users (68,70,71).

hypertensio HEADACHE

The onset or exacerbation of migraine or development of headache with a new pattern which is recurrent, pensistent or severe requires discontinuation of oral contraceptives and evaluation of the cause. BLEEDING IRREGULARITIES

Breakthrough bleeding and spotting are sometimes encountered in patients on oral contraceptives, especially during the first three months of use. Nonhormonal causes should be considered and adequate diagnostic measures taken to rule out malignancy or pregnancy in the event of breakthrough bleeding, as in the case of any abnormal vaginal bleeding, if pathology has been excluded, time or a change to another formulation may solve the problem. In the event of amenorrhea, preg-

Some wome nter post-pill amenorrhea or plicomenorrhea, especial ly when such a condition was pre-existent. ECTOPIC PREGNANCY

12. Ectopic as well as intrauterine pregnancy may occur in contraceptive failures.

PRECAUTIONS

PHYSICAL EXAMINATION AND FOLLOW UP It is good medical practice for all women to have annual history and physical It is good medical practice for all women to have armual history and physical examinations, including women using oral contraceptives. The physical examination, however, may be deterred until after initiation of oral contraceptives if requested by the woman and judged appropriate by the clinician. The physical examination should include special reference to blood pressure, breasts, abdomen and peaks organs, including cervical cytology, and relevant laboratory tests. In case of undiagnosed, persistant or recurrent abnormal vaginal bleeding, appropriate measures should be conducted to rule out malignancy. Women with a strong family history of breast cancer or who have breast nodules should be monitored with particular care.

LIPHO DISOROERS

Women who are being treated for hyperlipidemias should be followed closely if they elect to use oral contraceptives. Some progestogens may elevate LDL levels and may render the control of hyperlipidemias more difficult. LIVER FUNCTION

LIVER FURNITURE
If jaundice develops in any woman receiving such drugs, the medication should be discontinued. Steroid hormones may be poorly metabolized in patients with

4. FLUID RETENTION

Oral contraceptives may cause some degree of fluid retention: They should be prescribed with caution, and only with careful monitoring, in patients with condi-tions which might be appreciated by fluid retention. EMOTIONAL DISORDERS Women with a history of depression should be carefully observed and the drug

discontinued if depression recurs to a serious degree. CONTACT LENSES

Contact tens wearers who develop visual changes or changes in lens tolerance should be assessed by an ophtheimologist. DRUG INTERACTIONS

Reduced efficacy and increased incidence of breakthrough bleeding and men-strual irregularities have been associated with concomitant use of rifampin. A similar association, though less marked, has been suggested with barbitunder, phenylbutazona, phenytoin sodium, carbamazepine and possibly with griseofas-vin, ampicitiin and tetracyclines (72). INTERACTIONS WITH LABORATORY TESTS

Certain endocrine and tiver function tests and blood components may be affected by oral contraceptives:

ed by oral contractives.

I Increased prothrombin and factors VII, VIII, IX and X; decreased antithrombin.

3; increased norepinephrine-induced platelet aggregability.

b. Increased thyroid binding globulan (TBG) leading to increased circulating total thyroid hormone, as measured by protein-bound ordine (PBI), T4 by column or by radioimmunoassay. Free T3 resin uptake is decreased, reflecting the ele-

- or by radiommunicassay. Free 13 resul upgate is decreased, reflecting the elevated 186; free T4 concentration is unafered.

 c. Other binding proteins may be elevated in serum.

 d. Sax-hormone binding globulins are increased and result in elevated levets of
 total circulating sax steroids; however, free or biologically active levets either
 decrease or remain unchanged.

 e. High-density ilipoprotein cholesteroil (HDL-C) and trighycerides may be
 increased, while low-density lipoprotein cholesteroil (IDL-C) and total cholesteroil (Total-C) may be decreased or remain unchanged.

terror (local-c) may be operassed or remain unchanged.

Glucose tolerance may be decreased.

Serum foliate levels may be depressed by oral contraceptive therapy. This may be of clinical significance if a woman becomes pregnant shortly after discontinuing one contraceptives.

CARCINOGENESIS

See WARNINGS section.

10. PREGNANCY

Pregnancy Category X. See CONTRAINDICATIONS and WARNINGS sections. NURSING MOTHERS Small amounts of oral contraceptive steroids have been identified in the milk of

mursing mothers and a few adverse effects on the child have been reported, including issuadice and breast entargement. In addition, oral contraceptives given in the postpartum period may interfere with lacitation by decreasing the quantity and quality of breast mids. If possible, the nursing mother should be advised not to use oral contraceptives but to use other forms of contraception until she has completely weared her child.

12. SECUALLY TRANSMITTED DISEASES

Patients should be counseled that this product does not protect against HIV infection (AIDS) and other sexually transmitted diseases.

INFORMATION FOR THE PATIENT See Patient Labeling Printed Below

ADVERSE REACTIONS

Au Increased risk of the following serious adverse reactions has been associated with the use of oral contraceptives (see WARNINGS section):

• Thromboghlebitis and venous thrombosis with or without embolism

• Arterial thromboembolism

• Myocardial infarction

- Cerebral hemorrhage Cerebral thrombosis

Hepatic adenomas or benign fiver tumors
 The following adverse reactions have been reported in patients receiving oral contraceptives and are believed to be drug-related:

- Nausea
- Vomiting
- Gastrointestinal symptoms (such as abdominal cramps and bloating)
 Breakthrough bleeding

- Change in menstrual flow
- Amenorma
- Temporary infertility after discontinuation of treatment

- Melasma which may pensist
 Breast changes: tendemess, enlargement, secretion
 Change in weight (incresse or decrease)
 Change in cervical erosion and secretion
 Change in actation when given immediately postparture.
- Cholestatic jaundice

- Migraine
 Migraine
 Mash (allergic)
 Mental depression
 Reduced tolerance to carbohydrates
- Vaginal candidasts
 Change in comeal curvature (steepening)
 Intolerance to contact lenses

The following adverse reactions have been reported in users of oral contraceptives and the association has been neither confirmed nor retuted:

• Pre-menstrual syndrome

- Cataracts
 Changes in appetite
 Cystitis-like syndrome
- Headache Nervousne
- Dizziness Hirsutism

- Loss of scalp hair
 Erythema multiforme
 Erythema nodosum
- Hernorma
 Vaginitis
 Porphyris
 Impaired r

- Impaired renal function Hemolytic uremic syndrome
- Acma

- Changes in libido Colitis
- Budd-Chlari Syndrome

OVERDOSAGE

Serious III effects have not been reported following acute ingestion of large doses of one contraceptives by young children. Overdosage may cause nausea, and withdrawal bleeding may occur in ternales.

NON-CONTRACEPTIVE HEALTH BENEFITS

RUM-CURITACCUTIVE REALTH SERESTIE
The following non-contraceptive health benefits related to the use of oral contraceptives are supported by epidemiological studies which largely utilized oral contraceptive formulations containing estrogen doses exceeding 0.035 mg of ethinyl estradiol or 0.05 mg of mestranol (73-78).

Effects on menses:

- emers on mersear.

 increased menstrual cycle regularity

 decreased blood loss and decreased incidence of iron deficiency anemia

 decreased incidence of dysmenormiae

 Effects related to inhibition of ovulation:

 decreased incidence of functional ovarian cysts
- decreased incidence of ectopic pregnancies

- Effects from long-term use:

 * decreased incidence of fibroadenomas and fibrocystic disease of the breast
- decressed incidence of earth period inflammatory dissesse
 decressed incidence of endometrial cancer
 decressed incidence of overtain cancer

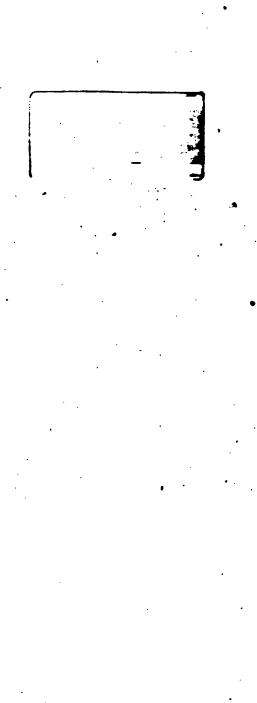
DOSAGE AND ADMINISTRATION

To achieve maximum contractive effectiveness, Apri (desogestrel and ethinyl estracti-ol) Tablets must be taken exactly as directed and at intervals not exceeding 24 hours. Apri tablets may be initiated using either a Sunday start or a Day 1 start.

NOTE: Each cycle pack blister card dispenser is preprinted with the days of the week, starting with Sunday, to facilitate a Sunday start regimen. Six different "day label strips" are provided with each cycle pack blister card in order to accommodate a Day 1 start regimen. In this case, the patient should place the self-adhesive "day label strip" that corresponds to her starting day over the preprinted days.

21-Day Regimes (Day 1 Start)
The disage of the Apri Tablet 21-Day Regimen for the initial cycle of therapy is one tablet administered daily from the 1st day through the 21st day of the menstrual cycle, counting the first day of menstrual flow as "Day 1." For subsequent cycles, no tablets are taken for 7 days, then a new course is started of one tablet a day for 21 days. The desage regimen then continues with 7 days of no medication, followed by 21 days of medication, instituting a three-weeks-on, one-week-off dosage regimen.

The use of the Apri Tablet 21-Day Regimen for compacition may be initiated 4 weeks postpartum in women who elect not to breast feed. When the tablets are administered during the postpartum period, the increased risk of thromboembolic disease associated with the postpartum period must be considered. (See CONTRAINDICATIONS and WARNINGS concerning thromboembolic disease. See also PRECAUTIONS for "Nursing



Momens. In one pament starts on desogester and etwiny estraction tacters postparawn, and has not yet had a period, she should be instructed to use another method of contraception until a rose-colored tablet has been taken daily for 7 days. The possibility of ovulation and conception prior to initiation of medication should be considered. If the patient fileses one (1) active tablet in Weeks 1, 2, or 3, the tablet should be taken as soon as she remembers. If the patient misses two (2) active tablets in Week 1 or Week 2, the patient should be lost (2) tablets the day she remembers and two (2) tablets the case should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing pills. If the patient misses two (2) active tablets in the little week or misses thene (3) or more active tablets in a rose the outlet the outlet the outlet throw third week or misses three (3) or more active tablets in a row, the patient should throw out the rest of the pack and start a new pack that same day. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing pills.

21-Day Regimes (Sendey Start)
When taking the Apri Tablet 21-Day Regimen, the first rose-colored tablet should be taken on the first Sunday after menstruation begins, if period begins on Sunday, the first rose-colored tablet is taken on that day, if switching directly from another oral contraceptive, the first rose-colored tablet should be taken on the first Sunday after the last ACTIVE tablet of the previous product. One rose-colored tablet is taken dayly for 21 days. For subsequent cycles, no tablets are taken for seven days, then a new course is started of one tablet a day for 21 days instituting a 3-weeks-on, one-week-off dosage regimen. When initiating a Sunday start regimen, another method of contraception should be used until after the first 7 consecutive days of administration.

The use of the Apri Tablet 21-Day Regimen for contraception may be initiated 4 weeks postpartum in women who elect not to breast feed. When the tablets are administered during the postpartum period, the increased risk of thromboembolic disease associatduring the postpartum period, the increased risk of thromboembotic disease associated with the postpartum period must be considered. (See CONTRAINDICATIONS and WARNINGS concerning thromboembotic disease. See also PRECAUTIONS for "Nursing Mothers.") If the patient starts on the April tablets postpartum, and has not yet had a period, she should be instructed to use another method of contraception until a rose-colored tablet has been taken daily for 7 days. The possibility of ovustion and conception prior to initiation of medication should be considered. If the patient misses so (1) active tablet in Weeks 1, 2, or 3, the tablet should be taken as soon as she remembers. If the patient misses they (2) active tablets in Weeks (2) tablets the day she remembers and two (2) tablets the need day; and then continue taking one (1) tablet a day until she finishes the pack. The patient should be instructed to use a back-up method of birth control if the has sax in the seven (7) days after missing pits. If the patient missas two (2) active tablets in the third week or missas three (3) or more tablets in a row, the patient should continue taking one tablet every day until Sunday. On Sunday the patient should involve out the nest of the pack and start a new pack that same day. The patient should be instructed to use a back-up method of birth control if she has sax in the seven (7) days after missing pits.

28-Day Regimen (Day 1 Start)

The dosage of the Apri Tablet 28-Day Regimen for the initial cycle of therapy is one tablet administered daily from the 1st day through 21st day of the menstruat cycle, counting the first day of menstruat flow as "Day 1." Tablets are taken without interruption as follows: One rose-colored tablet daily for 21 days, then one white tablet daily for 7 days. After 28 tablets have been taken, a new course is started and a rose-colored tablet is

The use of the Apri Tablet 28-Day Regimen for contracaption may be initiated 4 weeks postpartum in women who elect not to breast feed. When the tablets are administrated during the postpartum period, the increased risk of thromboembolic disease associated with the postpartum period must be considered. (See CONTRAINDICATIONS and WARNINGS concerning thromboembolic diseases. See also PRECAUTIONS for "Nursing Mothers.") If the patient starts on Apri tablets postpartum, and has not yet had a period, she should be instructed to use another method of contracaption until a rose-contribile the base before disk for 7 days. The postpartition of unchanged to the page tablets of the form of the page of the contribility of quistribiting of page 1. od, she should be instructed to use another method of contraception until a rose-col-ored tablet has been taken daily for 7, days. The possibility of ovulation and conception prior to initiation of medication should be considered. If the patient misses one (1) active tablet in Weeks 1, 2, or 3, the tablet should be taken as soon as she remembers. If the patient misses two (2) active tablets in Week 1 or Week 2, the patient should take two (2) tablets the day she remembers and two (2) tablets the nead day; and then con-tinue taking one (1) tablet a day until she finishes the pack. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days often misses out. after missing pile. If the patient misses two (2) active tablets in the third week or miss-es three (3) or more active tablets in a row, the patient should throw out the rest of the pack and start a new pack that same day. The patient should be instructed to use a backup method of birth control if she has sex in the seven (7) days after missing pills.

28-Day Regimes (Sunday Start)

28-Day Regimes (Sanday Start)
When taking the Apri Tablet 28-Day Regimen, the first rose-colored tablet should be
taken on the first Sunday after menstruation begins. If period begins on Sunday, the first
rose-colored tablet is taken on that day. If switching directly from another oral contraceptive, the first rose-colored tablet should be taken on the first Sunday after the tablet
ACTIVE tablet of the previous product. Tablets are taken without interruption as follows:
One rose-colored tablet daily for 21 days, then one white tablet daily for 70 days. After 28
tablets have been taken, a new course is started and a rose-colored tablet is taken the
next day (Sunday). When initiating a Sunday start regimen, another method of contraception should be used until after the first 7 consecutive days of administration.

ception should be used until after the first 7 consecutive days of administration. The use of the Apri Tablet 28-Day Regimen for contraception may be initiated 4 weeks postpartum. When the tablets are administered during the postpartum period, the increased risk of thromboembotic disease associated with the postpartum period must be considered. (See CONTRAINDICATIONS and WARNINGS concerning thromboembotic disease. See also PRECAUTIONS for "Nursing Mothers.") If the patient starts on April tablets postpartum, and has not yet had a period, she should be instructed to use another method of contraception until a rose-colored tablet has been taken daily for 7 days. The possibility of ovulation and conception prior to initiation of medication should be considered. If the patient misses one (1) active tablet in Weeks 1, 2, or 3, the tablet in Week 1 or Week 2, the patient should be tablet now the continue talong one (1) tablet a day until she finishes the past. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing pills. If the patient misses two (2) active tablets in the third week or misses three (3) or more tablets in a row, the patient should be continue taking one (1) tablets in a row, the patient should be continue taking one tablet every day until Sunday. On Sunday, the patient should throw out the rest of the pack and start a new pack that same day. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing pills.

ALL ORAL CONTRACEPTIVES

Breakthrough bleeding, spotting, and amenorrhea are frequent reasons for patients

discontinuing oral contraceptives. In breakthrough bleeding, as in all cases of irregular bleeding from the vagina, nonfunctional causes should be borne in mind. In undiagnosed persistent or recurrent abnormal bleeding from the vagina, adequate diagnosed persistent or recurrent abnormal bleeding from the vagina, adequate diagnosed necessaries are indicated to rule out pregnancy or malignancy. If pathology has been excluded, time or a change to another formulation may solve the problem. Changing to an oral contraceptive with a higher estrogen content, white potentially useful in minimizing menstrual irregulatrity, should be done only if necessary since this may increase the risk of thromboemboic disease.

Use of oral contraceptives in the event of a missed menstrual period:

1. If the patient has not adhered to the prescribed schedule, the possibility of pregnancy should be considered at the time of the first missed period and oral contraceptive use should be discontinued until pregnancy is ruled out.

2. If the patient has adhered to the prescribed regimen and misses two consecutive periods, pregnancy should be ruled out before continuing oral contraceptive use.

periods, pregnancy should be ruled out before continuing oral contraceptive use.

April (desopostret and ethinyl estradiol) Tablet 28 Day Regimen bilster cards contain 21 round, unscored, rose-colored tablets and 7 round, unscored white tablets. Each rose-colored tablet (debossed with "\$\pi\$" on one side and "\$75" on the other side) contains 0.15 mg desopestret and 0.03 mg ethinyl estradiol. Each white tablet (debossed with "\$\pi\$" on one side and "\$70" on the other side) contains inert Ingredients. Cartons of 6 blister cards NDC# \$1285-578-28.

Apri (desogestrel and ethinyt estradiol) Tablet 21 Day Regimen bitster cards contain 21 round, unscored rose-colored tablets. Each rose-colored tablet (debossed with "\$" on one side and "575" on the other side) contains 0.15 mg desogestrel and 0.03 mg ethinyt estradiol. Cartons of 6 bilister cards NDC# 51285-575-21.

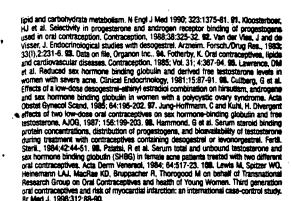
STORAGE: Store at controlled room temperature 15°-30°C (59°-88°F).

B only

DURAMED PHARMACEUTICALS, INC. CHICHRIGH, 0HIO 45213 USA

DURABIED PHANSINGELITICALS, INC.
CONCENSION, 1986 - CONTINUENT, 1986 -

Health and Human Development: Oral-contraceptive use and the risk of breast cancer. N Engl J Med 1986; 315:405-411. \$7. Pize Mic, Henderson BE, Kraito Mit), Dulas A. Roy S. Breast cancer risk in young women and use of oral contraceptives: possible modifying effect of formulation and age at use. Lancet 1983; 2:926-929. \$8. Pize C, Stagg DB, Spears GFS, Kaldor JM. Oral contraceptives and breast cancer: A radional study. Br Med J 1988; 237:723-723. \$8. Miller DR, Rosenberg L, Kaufman DM, Schotterfield D, Stolley PD, Shapiro S, Breast cancer risk in relation to early onal contraceptive use. Obstet Gynecol 1996; 88:863-868. 48. Otson H, Otson KL, Moller TR, Rentam J, Holm P, Oral contraceptive use and breast cancer in young women in Sweden (ether). Lancet 1985; 2:748-749. 41. MicPherson K, Vessey M, Mell A, Doll R, Jones L, Roberts M, Early update. Fertil Starti 1987; 47:733-761. 43. McPherson K, Orife JD, The pill and breast cancer: why the uncertainty? Br Med J 1986; 233:709-710. 44. Shapiro S, Oral contraceptives-time to take stock. N Engl J Med 1987; 315:450-451. 45. Ory H, Naib Z, Conger SB, Hatcher RA, Tyler CW. Contraceptive color and provalence of cervical dyspissia and carcinoma in situ. Am J Obstet Gynecol 1976; 124:573-375-77. 48. Vessey MP, Lawless M, McPherson K, Yeates D. Neoplasia of the cervis utari and contraception: a possible and reset of the pill. Lancet 1983; 2:930. 47. Britton LA, Huggirs GR, Lehman HF, Melli K, Saviz DA, Trapido E, Rosenthal J, Hoover R. Long term use of oral contraceptives and risk of invasive cervical cancer. Int J Cancer 1986; 38:339-344. 48. WHO Collaborative Study of hepatocesilater and combined oral contraceptives. Br Med J 1986; 282:1986-1986. 48. Rooks JB, Ory HW, Ishak KG, Strass LT, Greenspan JR, Hill AP 199; 290-981-986. 48. Rooks JB, Ory HW, Ishak KG, Strass LT, Greenspan JR, Hill AP 199; 290-981-986. 48. Rooks JB, Ory HW, Ishak KG, Strass LT, Greenspan JR, Hill AP 199; 290-981-986. 48. Rooks JB, Ory HW, Ishak KG, Strass LT, Greenspan JR, Hill AP 199; 290-981-986. Health and Human Development: Oral-contraceptive use and the risk of breast cancer. N Engl J Med 1986; 315:405-411. 37. Pike MC, Henderson BE, Kratio MD, Duke A, Roy to ora commanepowea. Br J Surgi 1977; 184-333—18, Katstein G. Hepatite tumoris: possible relationship to use of oral contrascoptives. Gastroemstrootly 1977; 7:339–334. B. Henderson 8E, Priston-Martin S, Edmondson HA, Petrar Rt., Pilze Mit. Hepatoce@user. And oral contrascoptives. Br J General 1983; 48-74-40. 33. Neubrerar J, Forman D, Doal R, Willsams R, Oral contraceptives and hepatoce@user. Br Med J 1986; 292: 1337-1391. BS, Hartisp S, Elder J, Births following oral contraceptive faithres. Obstact Gynacol 1980; 5:447-452. B. Savotainer E, Scienter E, Savan L. Teratopenic hazards of oral contraceptives and birth defects. Am J Epidemiol 1980; 112:73-78. Signated 1971; 140-251-254. BS, Savotainer E, Scienter E, Savan L. Teratopenic hazards of oral contraceptives and birth defects. Am J Epidemiol 1980; 112:73-78. Signater C, Mattonacid GM, Willson PD, Ruthin JD, Mail CA, Editorist R, Matterian Homone therapy and congenital heart diseases. Peratology 1980; 21:223-239. BB. Rothman M. P. Martin CA, Pristonacid GM, Willson PD, Ruthin JD, Mail CA, Goldbatz A, Kreidbarry MB. Experience 1987; 109-433-459. BB. Scotton Collaborative Drug Surveisions Program: Oral contraceptives and ventus thromboembotic diseases, surptically confirmed galibratider diseases, and reset burnons. Lancet 1973; 11339-1404. BR. Royal College of General Partitioners. Oral contraceptives and ventus thromboembotic diseases, surptically confirmed galibratider diseases, and breast burnons. Lancet 1973; 11339-1404. BR. Royal College of General Partitioners. Oral contraceptives and ventus thromboembotic diseases, surptically confirmed galibratider diseases. Am J Epidemiol 1984; 116:798-805. M. Stron BL. Tamrapouri RT, Morse ML, Lazer EE, West SS, Stolley PD, Jones XR, Oral contraceptive and breath. New York, Prisma JR, Stolley BR. Stolley PP, Jones XR, Oral contraceptive and breath. New York, Prisma JR, Royal College of General Partitions embly Prisma College of Company and Prismation of Childrich Market Aprism Adv. Stolley PP, Jones XR, Oral contracep Godsland, I et al. The effects of different formulations of oral contraceptive agents on



Brief Summary Patient Package Insert

Apri™ (desogestrel and ethinyl estradiol) Tablets

B only

Oral contraceptives, also known as "birth control pills" or "the pill," are taken to prevent pregnancy, and when taken correctly, have a failure rate of about 1% per year when used without missing any pills. The typical failure rate of large numbers of pill users is less than 3% per year when women who miss pills are included. For most women, oral con-traceptives are also free of serious or unpleasant side effects. However, forgetting to take pills considerably increases the chances of pregnancy.

For the majority of women, oral contraceptives can be taken safely. But there are some women who are at high risk of developing certain serious diseases that can be life-threatening or may cause temporary or permanent disability. The risks associated with taking oral contraceptives increase significantly if you.

Br Med J, 1996;312:88-90.

have high blood pressure, diabetes, high choice

have night blood pressure, classess, light cholessers.
 have or have had clotting disorders, heart attack, stroks, angins pectoris, cancer of the breast or sex organs, jaundice or malignant or benigh liver tumors.
 Although cardiovascular disease risks may be increased with oral contraceptive use after age 40 in healthy, non-amoking women (even with the newer low-doss formulations), there are also greater potential health risks associated with pregnancy in older

You should not take the pill if you suspect you are pregnant or have unexplained vagi-

Cigarette smoking increases the risk of serious cardiovacular side effects from ordi contraceptive size. This risk increases with age and with beavy smelting (15 or more cigarettee per day) and is quite started in women over 35 years of age. Weense who use oral contraceptives are strongly advised not to smelts.

Most side effects of the pill are not serious. The most common such effects are nauses, vomiting, bleeding between menstrual periods, weight gain, breast tenderness, headache, and difficulty wearing contact lenses. These side effects, especially nausea and vomiting, may subside within the first three months of use.

- and vombing, may subside within the first draw months or use.

 The serious side effects of the pill occur very infrequently, especially if you are in good heath and are young. However, you should know that the following medical conditions have been associated with or made worse by the pill:

 1. Blood clots in the legs (thrombopfitebits) or lungs (putmonary embolism), stoppage or rupture of a blood vessel in the brain (stroka), blockage of blood vessels in the brain (stroka), blockage of blood vessels in the brain (stroka), blockage of blood vessels in the brain (stroka), and stoppage of the body. As mentioned above, smoling increases the risk of heart attacks and strokas, and subsequent serious medical consequences.
- sequent serious measure consequences.

 Liver tumors, which may rupture and cause severe bleeding. A possible but not definite association has been found with the pill and liver cancer, However, liver cancers are extremely rare. The chance of developing liver cancer from using the pill is thus even rarer.
- High blood pressure, atthough blood pressure usually returns to normal when the pill is stopped.

The symptoms associated with these serious side effects are discussed in the detailed patient labeling given to you with your supply of pills. Notify your doctor or clinic if you notice any unusual physical disturbances while taking the pill. In addition, drugs such as rifampin, as well as some anticonvulsants and some antibiotics may decrea contraceptive effectiveness.

contraceptive effectiveness.

There is conflict among studies regarding breast cancer and oral contraceptive use.

Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be related to duration of use. The majority of studies have found no overall increase in the risk of developing breast cancer. Some studies have found an increase in the incidence of cancer of the covixt in women who use oral contraceptives. However, this finding may be related to factors other than the use of oral contraceptives. There is insufficient evidence to rule out the possibility that pills may cause such cancers.

Taking the pill provides some important non-contraceptive benefits. These include less painful menstruation, less menstrual blood loss and anemia, lewer pelvic infections, and fewer cancers of the ovary and the lining of the uterus.

leaver cancers or the ovary and the leaving to the tuterus. Be sure to discuss any medical condition you may have with your doctor or clinic. Your doctor or clinic will take a medical and family history before prescribing oral contraceptives and will examine you. The physical examination may be delayed to another time if you request it and your doctor or clinic believes that it is a good medical practice to postone it. You should be reexamined at least once a year white taking oral contraceptives. The detailed patient information tabeling gives you further information which you should read and discuss with your doctor or clinic.

THIS PRODUCT (LIKE ALL GRAL CONTRACEPTIVES) IS INTENDED TO PREVENT PRESIMANCY. IT DOES NOT PROTECT AGAINST TRANSMISSION OF HIV (AUSS) AND OTHER SECURALLY TRANSMITTED DISEASES SUCH AS CHLANYDIA, GENTRAL HERPES, GENTRAL WARTS, CONGRESIMA, HEPRITTIS S, AND SYPHALE.

DETAILED PATIENT LABELING

PLEASE NOTE: This isbeiting is revised from time to time as important new medical internation becomes available. Therefore, please review this isbeiting carefully. The following oral contraceptive products contain a combination of progestogen and estrogen, the two kinds of female hormones:

April (deseguates) and ethics/I estruction) Tablet 28 Day Regimes Bilister Card Each rose-colored tablet contains 0.15 mg desegestral and 0.03 mg ethics/I estraction. Each white tablet contains inert ingradients.

April (desoperated and ethinyl estradiol) Tables 21 Day Regimes Eliciar Cará Each rose-coloned tables contains 0.15 mg desopestrel and 0.03 mg ethinyl estradiol.

INTRODUCTION

INTRODUCTIONS

Any woman who considers using oral contraceptives (the birth control pill or the pill) should understand the benefits and risks of using this form of birth control. This patient tabeling will give you much of the information you will need to make this decision and will also help you determine if you are at risk of developing any of the seriation and will also help you determine if you are at risk of developing any of the seriation and will also help you determine if you are at risk of developing any of the seriation as effects of the pill. It will tell you how to use the pill property so that it will be as effective as possible. However, this labeling is not a replacement for a careful discussion between you and your doctor or clinic. You should discuss the information provided in this labeling with him or her, both when you first start taking the pill and during your revisits. You should also follow your doctor's or clinic's advice with regard to regular check-ups while you are on the pill.

EFFECTIVENEES OF ORAL CONTRACEFTIVES

Oral contraceptives or "birth control pitis" or "the piti" are used to prevent pregnancy and are more effective than other non-surgical methods of birth control. When they are taken correctly, the chance of becoming pregnant is less than 1% (1 pregnancy per 100 women per year of use) when used perfectly, without missing any pitis. Typical taken rates are actually 3% per year. The chance of becoming pregnant increases with each missed piti during a menstrual cycle.

In comparison, typical failure rates for other non-surgical methods of birth control dur-ing the first year of use are as follows:

Implant	<1%
Injection:	<1%
IÚD:	1 to 2%
Diaphragm with spermicides:	18%
Spermicides alone:	21%
Vaginal sponge:	18 to 36%
Cervical Cap:	18 to 36%
Condom alone (male):	12%
Condom alone (female):	21%
Periodic abstinence:	20%
No methods:	85%

WHO SHOULD NOT TAKE DRAL CONTRACEPTIVES

Cigarette smoking lecrosoes the risk of serious cardiovascular side effects from end contraceptive use. This risk increases with age and with beavy smoking (15 or more cigarettee per day) and is quite marked in women over 35 years of age. Women who use oral contraceptives are strongly advised not to

Some women should not use the pill. For example, you should not take the pill if you are pregnant or think you may be pregnant. You should also not use the pill if you have

- any of the following conditions:

 A history of heart attack or stroke

 Blood clots in the legs (thrombophlebitis), lungs (pulmonary embolism), or eyes

 A history of blood clots in the deep veins of your legs

 Chest pain (angina pectoris)
- . Known or suspected breast cancer or cancer of the lining of the uterus, cervix or
- vagina

 Unexplained vaginal bleeding (until a diagnosis is reached by your doctor)

 Yellowing of the whites of the eyes or of the skin (jaundica) during pregnancy or

Yellowing or the wholes or me eyes or or the stan (gaunoice) during pregnancy or during previous use of the pill
 Liver tumor (benign or cancerous)
 Known or suspected pregnancy
 Tell your doctor or clinic if you have ever had any of these conditions. Your doctor or clinic can recommend a safer method of birth control.

OTHER CONSIDERATIONS BEFORE TAKING GRAL CONTRACEPTIVES

- Tell your doctor or clinic if you have or have had:

 Breast nodules, fibrocystic disease of the breast, an abnormal breast x-ray or mammogram
- Diabetes
 Elevated cholesterol or triglycerides
- High blood pressure
 Migraine or other headaches or epilepsy
 Mental depression

Nentral steps result or indriney disease
 History of scarnty or irregular menstrual periods
 History of scarnty or irregular menstrual periods
 Women with any of these conditions should be checked often by their doctor or clinic if they choose to use oral contraceptives.
 Also, be sure to inform your doctor or clinic if you smoke or are on any medications,

RISKS OF TAKING ORAL CONTRACEPTIVES

RISICE OF TAKING ORAL CONTRACEPTIVES

1. Risk of developing bleed cleas
Blood clots and blockage of blood vessels are one of the most serious side effects of
taking oral contraceptives and can cause death or serious disability. In particular, a clot
in one of the legs can cause thrombophtebits and a clot that travels to the lungs can
cause a sudden blocking of the vessel carrying blood to the lungs. These risks are
greater with desogestrel-containing oral contraceptives, such as Apri (desogestrel and
eithing estration) Tables, than with other low-dose piles. Rarely, clots occur in the blood
vessels of the eye and may cause blindness, double vision, or impaired vision.
If you take oral contraceptives and need elective surgery, need to stay in bed for a prolonged illness or have recently delivered a bably, you may be at risk of developing blood
clots. You should consult your doctor or clinic about stopping oral contraceptives three

to four weeks before surgery and not taking oral contraceptives for two weeks after surgery or during bed rest. You should also not take oral contraceptives soon after delivery of a baby. It is advisable to wait for at least four weeks after delivery if you are not breast feeding or four weeks after a second trimester abortion. If you are breast feeding, you should wait until you have warend your child before using the pill. (See also the section on Breast Feeding in General Precautions.)

The risk of circulatory disease in oral contraceptive users may be higher in users of which deep with and restar with bronze riversing of oral contraceptive is to be a contraceptive.

The risk of circulatory disease in onal contraceptive users may be higher in users of high dose pills and may be greater with longer duration of onal contraceptive use. In addition, some of these increased risks may continue for a number of years after stopping oral contraceptives. The risk of abnormal blood circting increases with age in both users and nonusers of onal contraceptives, but the increased risk from the onal contraceptive appears to be not applying all ages. For women aged 20 to 44 it is estimated that about 1 in 2,000 using the contraceptive users in general, in the been estimated that about 1 in 2,000 and applying nonusers in the same age group, about 1 in 2,000 would be hospitalized each year. For onal contraceptive users in general, in has been estimated that in women deriveen the ages of 15 and 34, the risk of death due to a circulatory disorder is affour 1 in 12,000 per year, whereas for nonusers the rate is about 1 in 50,000 per year for more contraceptive users and about 1 in 10,000 per year for nonusers.

2. Heart attracts and interests.

2. Heart attacks and strakes.

2. Heart exceptives may increase the tendency to develop strokes (stoppage or rupture of blood vessels in the brain) and angina pectoris and heart attacks (blockage of blood vessels in the heart). Any of these conditions can cause death or serious disability. Smoking greatly increases the possibility of suffering heart attacks and strokes. Furthermore, smoking and the use of oral contraceptives greatly increase the chances of developing and dying of heart disease.

Oral contraceptive users probably have a greater risk then nonusers of having gatibled-der disease, although this risk may be related to pills containing high doses of estrogens.

A. I have become

....

4. Liver tenses in rare case, oral contraceptives can cause benige but dangerous liver tumors. These benign fiver tumors can rupture and cause tatal internal bleeding, in addition, a possi-ble but not definite association has been found with the pill and liver cancers in two studies, in which a few women wind developed these very rare cancers were found to have used onal contraceptives for long periods. However, liver cancers are rare.

5. Cancer of the reproductive ergans and bread

8. Cancer of the representate organization unusual. There is conflict among studies reparting breast cancer and onel contracaptive use. Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be retained to duration of use. The majority of studies have found no overall increase in the risk of developing breast cancer. Some studies have found an increase in the incidence of cancer of the cervitx in women who use oral contraceptives. However, this finding may be related to factors other than who use oral contraceptives. However, this finding may be related to factors other than the use of oral contraceptives. There is insufficient evidence to rule out the possibility that oills may cause such cancers.

ESTIMATED RISK OF DEATH FROM A MATH CONTROL METHOD OR PREGMANCY

All methods of birth control and pregnancy are associated with a risk of developing car-tain diseases which may lead to disability or death. An estimate of the number of deaths associated with different methods of birth control and pregnancy has been calculated and is shown in the following table.

ANNUAL RUMBER OF BURTH-RELATED ON METHOD-RELATED DEATHS ASSOCIATED WITH CONTROL OF FERTILITY PER 108,000 NON-STERILE WOMEN, BY FERTILITY CONTROL METHOD ACCORDING TO AGE

Method of control and outcome	15-19	28-24	25-29	30-34	35-39	40-4
No fertility control methods*	7.0	7.4	9.1	14.8	25.7	28.2
Oral contraceptives non-smoker**	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives smoker**	2.2	3.4	6.6	13.5	51.1	117.2
IND.	0.8	0.8	1.0	1.0	1.4	1.4
Condom*	1.1	1.6	0:7	0.2	0.3	0.4
Diaphragm/spermicide*	1.9	1.2	1.2	1.3	2.2	2.8
Periodic abstinence*	2.5	1.6	1.6	1.7	2.9	3.6

- * Deaths are birth related
 ** Deaths are method related

In the preceding table, the risk of death from any birth control method is less than the risk of childbirth, except for oral contraceptive users over the age of 35 who smoke and pill users over the age of 40 even if they do not smoke, it can be seen in the table that for women aged 15 to 39, the risk of death was highest with prenancy (7-26 deaths per 100,000 women, depending on age). Among pill users who not smoke, the risk of death was always lower than that associated with pregnancy for any age group, although over the age of 40, the risk increases to 32 deaths per 100,000 women, compared to 28 associated with pregnancy at that age. However, for pill users who smoke and are over the age of 35, the estimated number of deaths exceeds those for other methods of birth control. If a woman is over the age of 40 and smokes, her estimated risk of death is four times higher (117/100,000 women) then the estimated risk associated with pregnancy (28/100,000 women) in that age group.

The suggestion that women over 40 who do not smoke should not take oral contraceptives is based on information from otder, higher-dose pills. An Advisory Committee of

The suggestion triat women over 40 who do not smoke should not take oral contracep-tives is based on information from older, higher-dose pills. An Advisory Committee of the FDA discussed this issue in 1989 and recommended that the benefits of low-dose oral contraceptive use by healthy, non-smoking women over 40 years of age may out-weigh the possible risks.

WARNING SIENALS

If any of these adverse effects occur while you are taking oral contraceptives, call your doctor or clinic immediately.

- for or clinic immediately.

 Sharp chest pain, coughing of blood, or sudden shortness of breath (indicating a possible clot in the lung).

 Pain in the call (indicating a possible clot in the leg).

 Crushing chest pain or heaviness in the chest (indicating a possible heart attack). Sudden severe headache or vomiting, disziness or fainting, disturbances of vision or speech, weakness, or numbness in an arm or leg (indicating a possible stroke). Sudden partial or complete loss of vision (indicating a possible clot in the eye). Breast lumps (indicating possible breast cancer or fibrocystic desase of the breast; ask your doctor or clinic to show you how to examine your breasts). Severe pain or tenderness in the stomach area (indicating a possibly ruptured liver tumor).
- liver tumor)
- Inter tumor) Difficulty in sleeping, weakness, tack of energy, fatigue, or change in mood (possibly indicating severe depression)

 Jaundice or a yellowing of the skin or eyebalis, accompanied frequently by fever, fatigue, loss of appetite, dark colored urine, or light colored bowel movements (indicating possible liver problems)

SIDE EFFECTS OF ORAL CONTRACEPTIVES

1. Vaginal bleeding irregular vaginal bleeding or spotting may occur while you are taking the pills. Irregular bleeding may vary from slight staining between menstrual periods to breakthrough bleeding which is a flow much libra a regular period. Irregular bleeding occur most often during the first lew months of oral contraceptive use, but may also occur after you have been taking the pill for some time. Such bleeding may be temporary and usually does not indicate any serious problems. It is important to continue taking your pills on schedule. If the bleeding occurs in more than one cycle or lasts for more than a few days, talk to your doctor or clinic.

2. Contact team

If you wear contact lenses and notice a change in vision or an inability to wear your lenses, contact your doctor or clinic.

Fluid retention

Oral contraceptives may cause edema (fluid retention) with swelling of the fingers or anxies and may raise your blood pressure. If you experience fluid retention, contact your doctor or clinic.

Melseume
 A spottly darkening of the skin is possible, particularly of the face, which may persist.

5. Other side effe

Other side effects may include neuses and vomiting, change in appetits, headache, n vousness, depression, dizziness, loss of scalp hair, rash, and vaginal infections. If any of these side effects bother you, call your doctor or clinic.

GENERAL PRECALITIONS

GENERAL PRECAUTIONS

1. Missed periods and use of oral costraceptives before or during early programs. There may be times when you may not menstruate regularly after you have completed taking a cycle of pits. If you have taken your pills regularly and miss one menstrual period, continue taking your pills for the next cycle but be sure to inform your doctor or clinic before doing so. If you have not taken the pills daily as instructed and missad a menstrual period, you may be pregnant. If you missed two consecutive menstrual periods, you may be pregnant. Check with your doctor or clinic immediately to determine whether you are pregnant. Do not continue to take oral contraceptives until you are sure you are not pregnant, but continue to use another method of contraception.

There is no conclusive evidence that oral contraceptive use is associated with an increase in birth defects, when taken inadvertently during early pregnancy. Previously, a few studies had reported that oral contraceptives might be associated with birth diefects, but these findings have not been seen in more recent studies. Nevertheless, oral contraceptives or any other drugs should not be used during pregnancy unless clearly necessary and prescribed by your doctor or clinic. You shoult taken during pregnancy.

taken during pregnancy

taken during programov.

2. While breast feeding.
If you are breast feeding, consult your doctor or clinic before starting and contraceptives. Some at the drug will be passed on to the child in the milk. A few adversareflects on the child have been reported, including yellowing of the skin (jaundice) and breast enlargement. In addition, and contraceptives may decrease the amount and quality or your milk. If possible, do not use anal contraceptives white breast feeding. You should use another method of contraception since breast feeding provides only partial protection from becoming programs and this partial protection decreases significantly as you breast feed for longer periods of time. You should consider starting and contraceptives only after you have weaned your child completely.

3. Laborationy basis

If you are scheduled for any laboratory tests, tell your doctor or clinic you are taking birth control pills. Certain blood tests may be affected by birth control pills.

A Dres interactions

4. Dreg interactions
Certain drugs may interact with birth control pills to make them less effective in preventing programey or cause an increase in breakdhrough bleeding. Such drugs include rifampin, drugs used for epilepsy such as barbiturates (for example, phenobarbital), anticonvulsants such as carbannazepine (Fegretal is one brand of tris drug), phenytolic policy place on brand), phenytolic policy carbin antibiotics. You may need to use additional contraception when you take drugs which can make oral contraceptives less effective.

5. Suzzally transmitted disease:
This product (the sit oral contraceptives) is intended to prevent pregnancy, it does not protect against transmission of HIV (AIDS) and other sexually transmitted diseases such as chamydia, geniat herpes, genital warts, gonormes, hepatitis B, and syphilis.

HOW TO TAKE THE PILA. IMPORTANT POWER TO REMEMBER

BEFORE YOU START TAKING YOUR PILLS:

- 1. BE SURE TO READ THESE DIRECTIONS:
- Before you start tailing your pills.
 Anytime you are not sure what to do.
 2. THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THES SAME TIME.
- If you miss aits you could get pregnant. This includes starting the pack late.
- The more pills you miss, the more likely you are to get pregnant.

 MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK TO
 THEIR STOMACH DURING THE FIRST 1-3 PACKS OF PILLS.
- THEIR STOMACH DURING THE FIRST 1-3 PACKS OF PILLS.
 If you feel sick to your stomach, do not stop taking the pill. The problem will usually go away, if it doesn't go away, check with your doctor or clinic.

 MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING, even when you make up these missed pills. On the days you take 2 pills to make up for missed pills you could also feel a lithe sick to your stomach.

 If YOU HAVE VONITING OR DIARRHEA, for any reason, or IF YOU TAKE SOME MEDICINES, including some antibiodics, your pills may not work as well.
 Use a backup method (such as condoms, form, or sponge) until you check with your doctor or clinic.

 If YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your doctor or clinic and how to make oil-britten easier or shout using another method of birth.
- Clinic about how to make pill-citing easier or about using another method of birth control.

 7. If YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMATION IN
- THIS LEAFLET, cell your doctor or clinic.

 REFORE YOU START TAKING YOUR PILLS:

 1. DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL. It is important to take

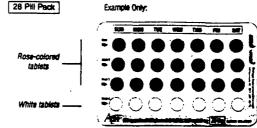
if at about the same time every day.

2. LOOK AT YOUR PILL PACK TO SEE IF IT HAS 21 OR 28 PILLS:
The 21_orit pack has 21 "active" (ross-colored) pills (with hormones) to take for 3 weeks, followed by 1 week without pills.
The 28_orit pack has 21 "active" [ross-colored] pills (with hormones) to take for 3 weeks, followed by 1 week of reminder [white] pills (without hormones).

3. ALSO FIND:

....

1) where on the pack to start taking the pitts.
2) in what order to take the pitts (follow the arrows) and
3) the week numbers printed on the pack.



BE SURE YOU HAVE READY AT ALL TIMES: ANOTHER KIND OF BIRTH CONTROL (such as condoms, foam, or sponge) to use

as a back-up in case you miss piles.

AN EXTRA FULL PILL PACK.
WHEN TO START THE FIRST PACK OF PILE:
You have a choice of which day to start taking your first pack of piles. Decide with your doctor or clinic which is the best day for you. Pick a time of day which will be easy to DAY 1 STARTE

- In Pick the day label strip that starts with the first day of your period (this is the day you start bleeding or spotting, even if it is almost midnight when the bleeding begins.)
 2. Place this day label strip on the cycle tablet dispenser over the area that has the days of the week (starting with Sunday) printed on the blatter card.

Pick Correct Day Label THU FRI SAT SUN MON TUE WED Peel and place tabel here. Example Only:

- Note: If the first day of your period is a Sunday, you can stdp steps #1 and #2.

 3. Take the first "active" [rose-colored] pill of the first pack during the first 24 hours of
- your period.

 4. You will not need to use a back-up method of birth control, since you are starting the pill at the beginning of your period.

 SUIRDAY STARTS:
- Surguer's lines:

 1. Take the first "active" [rose-colored] pill of the first pack on the <u>Sunday after your period starts</u>, even if you are stiff bleeding, if your period begins on Sunday, start the pack that same day.

 2. Use another method of birth control as a back-up method if you have sex anytime.
- 2. Use another method of brith control as a back-up method if you have sex anytime from the Sunday you start your first peak until the next Sunday (7 days). Condoms, foam, or the sponge are good back-up methods of birth control.

 WHAT TO 00 OUTRING THE BROWTH:

 1. TAKE ONE PILL AT THE SAME TIME EVERY DAY UNITS. THE PACK IS EMPTY.

 Do not skip pils even if you are spotting or bleeding between monthly periods or feel sick to your storach (nausea).

 Do not skip pils even if you are spotting or bleeding between monthly periods or feel sick to your storach of you do not have sex very often.

 2. WHEEN YOU FIRSON A PACK OR SWITCH YOUR BRAND OF PILLS:
- Wait 7 days to start the next pack. You will probably have your period during that week. Be sure that no more than 7 days pass between 21-day packs.
 Start the next pack on the day after your last "reminder" pill. Do not wait

- Start the next pack on the day after your lass. Terminder" pill. Do not wast any days between packs.

 WHAT TO DO IF YOU MISSS PILLS:
 If you MISSS 1 [rose-colored] "active" pilt:

 1. Take it as soon as you remember. Take the next pill at your regular time. This means you take 2 pills in 1 day.

 2. You do not need to use a back-up birth control method if you have sex. If you MISSS 2 [rose-colored] "active" pilts in a row in MISSS 1 (rose-colored) "active" pilts in a row in MISSS 1 (rose-colored).

- If you NESS 2 [rose-colored] "active" pibs in a row in WEEK 1 06
 WEEK 2 of your pack:

 1. Take 2 pibs on the day you remember and 2 pibs the next day.

 2. Then take 1 pils a day until you finish the pack.

 3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss pilts. You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.

 If you MISS 2 [rose-colored] "active" pilts in a row in THE SRO WEEK:

 1. If you are a Day 1 Standar?

 THROW OUT the rest of the pill pack and start a new pack that same day.

 If you was a 8 Sanday Standar.

 Keep taking 1 pill every day until Sunday.

 On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

2. You may not have your period this month but this is expected. However, if you miss

your penda 2 monats in a rule; call your ex nant

nam.
3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss pits.
You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.
If you MISS 3 DR MORE [inse-colored] "active" pits in a row (during the first 3 weeks).

. . . .

you MBSS 3 OR MEMBE [rose-colored] "active" piets in a row (during the first 3 weeks). If you are a Dwy 1 Starter. THROW OUT the rest of the pill pack and start a new pack that same day. If you are a Samday Starter. Keep taking i pill every day until Sunday. On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same

You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be pregnant.

You MAY BECOME PREGNANT if you have sex in the 7 days after you miss pills.
You MUST use another birth control method (such as condoms, fram, or sponge) as a back-up method for those 7 days.

A REMINDER FOR THOSE ON 28 DAY PACKS:

If you forget any of the 7 [white] "reminder" pills in Week 4: "
THROW AWAY the pills you missed.
Keep taking I pill sach day until the pack is empty.
You do not need a back-up method.

FINALLY, IF YOU ARE STILL NOT SURE WHAT TO GO ABOUT THE PILLS YOU HAVE MISSELL

mrodeus: Use a BACK-UP METHOD anytime you have sex. KEEP TAKING ONE (rose-colored) "ACTIVE" PILL EACH DAY until you can reach your doctor or clinic.

PREGIALACY DUE TO PILL FAILURE
The incidence of pit feature resulting in pregnancy is approximately one percent (i.e., one pregnancy per 100 women per year) if taken every day as directed, but more typical failure rates are about 3%. If failure does occur, the risk to the fetus is minimal.

PREBMANCY AFTER STOPPING THE PILE.

There may be some diskly in becoming pregnant after you stop using oral contraceptives, especially if you had irregular menstrual cycles before you used onal contraceptives, it may be advisable to postpone conception until you begin menstruating regularly once you have stopped taking the pill and desire pregnancy.

There does not appear to be any increase in birth defects in newborn bables when pregnancy occurs soon after stopping the pill.

OVERDOSAGE
Serious ill effects have not been reported following ingestion of large doses of oral contraceptives by young children. Overdosage may cause nauses and withdrawal bleeding in females. In case of overdosage, contact your doctor, clinic or pharmacist.

OTHER INFORMATION

Your doctor or clinic will take a medical and tamily history before prescribing oral contraceptives and with examine you. The physical examination may be delayed to another time if you request it and your doctor or clinic believes that it is a good medical practice to postpone it. You should be reexamined at least once a year. Be sure to inform your doctor or clinic if there is a family history of any of the conditions listed previously in this leaflet. Be sure to keep all appointments with your doctor or clinic because this is a time to determine if there are early signs of side effects of oral contraceptive use. Do not use the drug for any condition other than the one for which it was prescribed. This drug has been prescribed specifically for you; do not give it to others who may want birth control pills.

- HEALTH BENEFITS FROM GRAL CONTRACEPTIVES
 In addition to preventing pregnancy, use of combination oral contraceptives may provide certain benefits. They are:

 menstruat cycles may become more regular

 blood flow during menstruation may be lighter and less iron may be lost. Therefore, anemia due to iron deficiency is less likely to occur.

 pain or other symptoms during menstruation may be encountered less frequently.

 cotopic (tubal) pregnancy may occur less frequently.

 concancerous cysts or lumps in the breast may occur less frequently.

 concancerous cysts or lumps in the breast may occur less frequently.

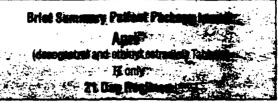
 oral contraceptive use may provide some protection against developing two forms of cancer: cancer of the overles and cancer of the lining of the uterus.

If you want more information about birth control pills, ask your doctor, clinic or phar-macist. They have a more technical leaflet called the Professional Labeling, which you may wish to read. The Professional Labeling is also published in a book entitled Physicians' Desk Reference, evallable in many book stores and public libraries.

DURAMED PHARMACEUTICALS, INC. CINCHINATI, OHIO 45213 USA

106358A

REV. DIL/96



THIS PRODUCT (LIKE ALL GRAL CONTRACEPTIVES) IS INTERIORD TO PREVENT PRESNANCY. IT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES.

MON	TUE	WED	THU	FRI	SAT	SUN
TUE	WED	THU	FRI	SAT	SUN	MON
WED	THU	FRI	SAT	SUN	MON	TUE
THU	FRI	SAT	SUŅ	MON	TUE	WED
FRI	SAT	SUN	MON	TUE	WED	THU.
SAT	SUN	MON	TUE	WED	THU	FRI
SUN .	MON	TUE	WED	THU	FRI	SAT



OCT 28 1999

April (descapative) and ethinyl estrudiel) Tablet 21 Day Regimes Blater Card; Contains 21 round rescolared tablets in a bister card attached to a "credit card" dispenser. Each rose-colored tablet contains 0.15 mg desogestrel and 0.03 mg ethinyl estradiol.

0.13 mg destignes and ucos mg entiryl esculario.

Oral contraceptives, also known as "birth control bills" or "the pill," are taken to prevent pregnancy, and when taken correctly, have a failure rate of about 1% per year when used without missing any pills. The typical failure rate of large numbers of pill users is less than 3% per year when women who miss pills are included. For most women, oral contraceptives are also free of serious or unpleasant side effects. However, forgetting to take pills considerably increases the chances of pregnancy.

For the majority of women, oral contraceptives can be taken safely. But there are some women who are at high risk of developing certain serious diseases that can be life-threatening or may cause temporary or permanent disability. The risks associated with teiding oral contraceptives increase significantly if you: • smoke

snotes
 have high blood pressure, diabetes, high cholesterol
 have or have had clotting disorders, heart attack, stroke, angine pectoris, cancer of the breast or sex organs, jaundice or malignant or benign liver tumors
 atthough cardiovascular disease risks may be increased with onel contraceptive use after age 40 in healthy, non-anoking women (even with the newer low-does formulations), there are also greater potential health risks associated with pregnancy in older women.

You should not take the pill if you suspect you are pregnent or have unexplained vaginal bleeding.

Cigarette smoking increases the risk of serions cardiovaccher side effects from eral contraceptive use. This risk increases with aga and with beavy smoking (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Women who use oral contraceptives are strongly advised set to amake.

Most side effects of the pill are not serious. The most common such effects are neusea, vomiting, bleeding between menstrual periods, weight gain, breast tenderness, headachs, and difficulty wearing contact lenses. These side effects, especially nausea and vomiting, may subside within the first

three months of use.

The serious side effects of the pill occur very infrequently, especially if you are in good health and are young. However, you should know that the following medical conditions have been associated with or made worse by the pill:

- 1. Blood clots in the legs (thrombophiebitis) or lungs (pulmonary embotism), stoppage or rupture of a blood vessel in the brain (stroke), blockage of blood vessels in the heart fleat attack or anging pectoris) or other organs of the body. As mentioned above, smoking increases the risk of heart attacks and strokes, and subsequent serious medical consequences.
- 2. Liver tumors, which may rupture and cause severe bleeding, A possible but not definite association has been found with the pill and liver cancer. However, liver cancers are extremely rare. The chance of developing liver cancer from using the pill is thus even rarer.

 3. High blood pressure, although blood pressure usually returns to normal when the pill is

stopped. The symptoms associated with these serious side effects are discussed in the detailed patient labeling given to you with your supply of pills. Notify your doctor or clinic if you notice any unusual physical disturbances while taking the pill, in addition, drugs such as ritampin, as well as some anticonvulsants and some antitiotics may decrease on a contraceptive effectiveness.

There is conflict among studies regarding breast cancer and one contraceptive use. Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be related to duration of use. The majority of studies have found no Presial increase in the risk of developing breast cancer. Some studies have found an increase in the increase in the risk of developing breast cancer. Some studies have found an increase in the increase of cancer of the cervix in women who use one contraceptives. However, this finding may be related to factors other than the use of oral contraceptives. There is insufficient evidence to rule out the possibility that pills may cause such cancer.

Taking the pill provides some important non-contraceptive benefits. These include less painful menstrustion, less menstrual blood loss and anemia, fewer peivic infections, and fewer cancers of the ovary and the lining of the uterus.

the ovary and the lining of the uterus. Be sure to discuss any medical condition you may have with your doctor or clinic. Your doctor or clinic will take a medical and family history before prescribing oral contraceptives and will exam-ine you. The physical examination may be designed to another time if you request it and your doc-tor or clinic believes that is a good medical practice to postpone it. You should be recumined at least once a year while taking oral contraceptives. The detailed patient information labeling gives you further information which you should read and discuss with your doctor or clinic. THIS PRODUCT (LIKE ALL GRAL CONTRACEPTIVES) IS INTERIORED TO PREVENT PRESIMANCY. IT DOES MOT PROTECT ASAMEST TRAKEMISSION OF HIV (AUS) AND OTHER SEXUALLY TRAKE-

MITTED DISEASES SUCH AS CHLAMYDIA, GENITAL MERPES, GENITAL WARTS, GOMORPHEA, HEPATITIS B. AND SYPHEIS.

HOW TO TAKE THE PILL. IMPORTANT POHITS TO REMEM

BEFORE YOU START TAKING YOUR PILLS:

- BE SURE TO READ THESE DIRECTIONS:
 Before you start taking your pills.

- Before you start taking your pills.

 Anytime you are not sure what to do.

 THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THE SAME TIME. If you miss pills you could get pregnant. This includes starting the pack late. The more pills you miss, the more likely you are to get pregnant.

 MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK TO THEIR STOM-ACH OURING THE FIRST 1-3 PACKS OF PILLS.

 If you feel sick to your stomach, do not stop taking the pill. The problem will usually go away. If it doesn't go away, check with your doctor or clinic.

 MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING, even when you make up these missed pills. On the days you take 2 pills to make up for missed pills, you could also feel a little sick to your stomach.
- a little sick to your stomach.

 IF YOU HAVE VOMITING OR DIARRHEA, for any reason, or IF YOU TAKE SOME MEDICINES,
- IT TOU THATE YOM! HED UN DUMNITURE, FOR TRY TERSON, OF IT YOU TAKE SUME MEDICINES, including some antibiotics, your pills may not work as well. Use a back-up method (such as condoms, fearn, or spenge) until you check with your doctor or clinic. If YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your doctor or clinic about how to make pill-taking easier or about using another method of birth control.

 IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMATION IN THIS LEAFLET, call your doctor or clinic.

BEFORE YOU START TAKING YOUR PILLS:

- DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL. It is important to take it at about
- COURT WITH TIME UP DAY YOU WANT TO TAKE YOUR PILL. It is important to take it at about the same time every day.

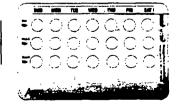
 LOOK AT YOUR PILL PACK TO SEE THAT IT HAS 21 PILLS: The <u>21-sift pack</u> has 21 "active" (rose-colored) pills (with hormones) to take for 3 weeks, followed by 1 week without pills. ALSO FIND:

- where on the pack to start taking the pills,
 in what order to take the pills (follow the arrows) and
- 3) the week numbers as shown in the following example:

21 Pill Pack

Example Only:

Rose-colored





BE SURE YOU HAVE READY AT ALL TIMES:
 ANOTHER KIND OF BIRTH CONTROL (such as condoms, foam, or sponge) to use as a backup in case you miss pile.
 AN EXTRA, FULL PILL PACK.

1991 12

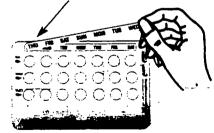
WHEN TO START THE EIRST PACK OF PILLS:
You have a choice of which day to start taking your first pack of pills. Decide with your doctor or clinic which is the best day for you. Pick a time of day which will be easy to remember.

- OAY 1 START:

 1. Pick the day label strip that starts with the first day of your period (this is the day you start bleeding or spotting, even if it is almost midnight when the bleeding begins).

 2. Place this day label strip on the cycle tablet dispenser card over the area that has the days of the week (starting with Sunday) printed on the dispensing card.

Pick correct day label THU FRI SAT SUN MON TUE WED



Note: If the first day of your period is a Sunday, you can skip steps #1 and #2. Take the first "active" (rose-colored) pill of the first pack during the first 24 hours of your period. You will not need to use a back-up method of birth control, since you are starting the pill at the beginning of your period.

SUNDAY START

SUMDAY START:

1. Take the first "active" (rose-colored) pill of the first pack on the <u>Sunday after your period starts</u>, even if you are still bleeding. If your period begins on Sunday, start the pack that same day.

2. <u>Use another method of birth control</u> as a back-up method if you have sex anytime from the Sunday you start your first pack until the next Sunday (7 days). Condoms, foam, or the sponge are good back-up methods of birth control.

WHAT TO DO DURING THE MONTH:

1. TAKE ONE PILL AT THE SAME TIME EVERY DAY UNTIL THE PACK IS EMPTY.

Do not skip pills even if you are spotting or bleeding between monthly periods or feel sick to

Do not skip pills even if you do not have sex very often.

2. WHEN YOU FREISH A PACK ON STRITCH YOUR BRASSO OF PILLE:
WAST 7 days to start the next pack. You will probably have your period during that week. Be sure
that no more than 7 days pass between 21-day packs.

WHAT TO DO IF YOU MASS PILLE: if you MISS 1 [rose-colored] "active" pilk: 1. Take it as soon as you remember. Take the next pill at your regular time. This means you take

If you impase a [trose-country] access place.

1. Take it as soon as you remamber. Take the next pill at your requiar time. This means you take 2 pilbs in 1 day.

2. You do not need to use a back-up birth control method if you have sex. If you MRSB 2 [rose-colored] "active" pills in a row in WREER 1 0R WREER 2 of your pack:

1. Take 2 pills on the day you remember and 2 pills the next day.

2. Then take 1 pills a day until you finish the pack.

3. You MAY BECOME PREGINANT if you have sox in the 7 days after you miss pills. You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days:

If you MRSB 2 [trose-colored] "active" pills in a row in TME 3RD WREER.

1. If you are a Day 1 disease:

THROW OUT the rest of the pill pack and start a new pack that same day.

If you are a Samday Starter:

Keep taking 1 pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

2. You may not have your period the month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be prognara.

3. You MAY BECOME PREGINANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method

- use another birth control method (such as condoms, foam, or sponge) as a back-up method use another birth control method (such as condoms, foam, or sponge) as a back-up method (those 7 days.

 If you MRSS 3 ON MIONE [rose-colored] "active" pills in a row (during the first 3 weeks):

 1. If yee are a Day 1 Starter:

 THROW OUT the rest of the pill pack and start a new pack that same day.

 If you are a Sussety Starter:

 Keep taking 1 pill every day until Sunday.

 On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

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- You may not have your period this month but this is expected. However, if you miss your period
 2 months in a row, call your doctor or clinic because you might be pregnant.
 You MAY BECOME PREGNANT if you have sex in the 7 this party you miss pills. You MUST
 use another birth control method (such as condoms, foam, or sponge) as a back-up method
 for those 7 days.

Finally, if you are still not sure what to do about the pills you have irissed; Use a Back-up method anytime you have sex. KEEP TAKING ONE [ROSE-COLORED] "ACTIVE" PILL EACH DAY until you can reach your doctor

DURAMED PHARMACEUTICALS, INC. CINCINNATI, OHIO 45213 USA

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REV. 08/99

ethinyl estradiol) Tablets ethinyl estradiol) Tablets (desogestrel and (desogestrel and NDC 21382 23F 38 87-925-58215 DON O Gedic Tablet Dispensers x 38 Tableta O Cyclic Tablet Dispensers t 28 Tablets 6 Cyclic Tables Dispensers 128 Tables 28 Resser 3 (desogestrel and ethinyl estradiol) Tablets 0.15mg/0.03mg

0.15mg/0.03mg

IMPORTANT:

This curses contains Detailed Patient Labeling and each Cyclic Tables
Disposer contains the Brief Patient Labeling, Both should be included with
each package disposed to the patient.

PHARMACIST:

Phase he sam so place one of the eachysel "famorice" sickers on the cover of each blister tank peach at the time of disposing.



0.15 mg / 0.03 mg

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THIS PRODUCT (LIKE ALL GRAL! CONTRACEPTIVES) IS INTENDED TO PREVENT PREGMANCY. IT DOES NOT PROTECT AGAINST NOT MITECTION (ANDS AND OTHER SECURILLY TRANSMITTED DISEASE.

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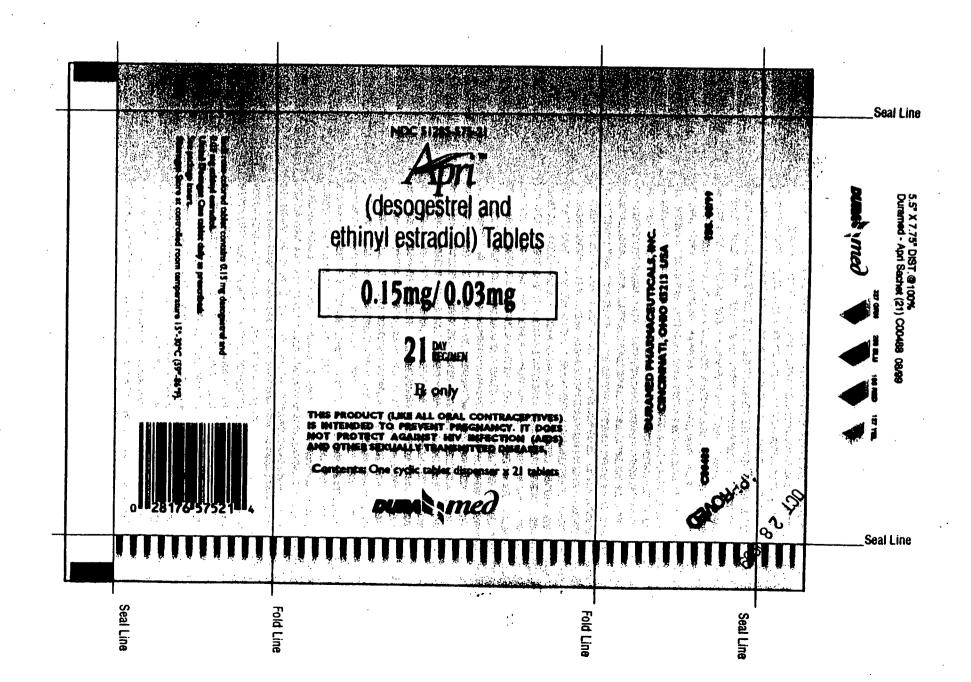
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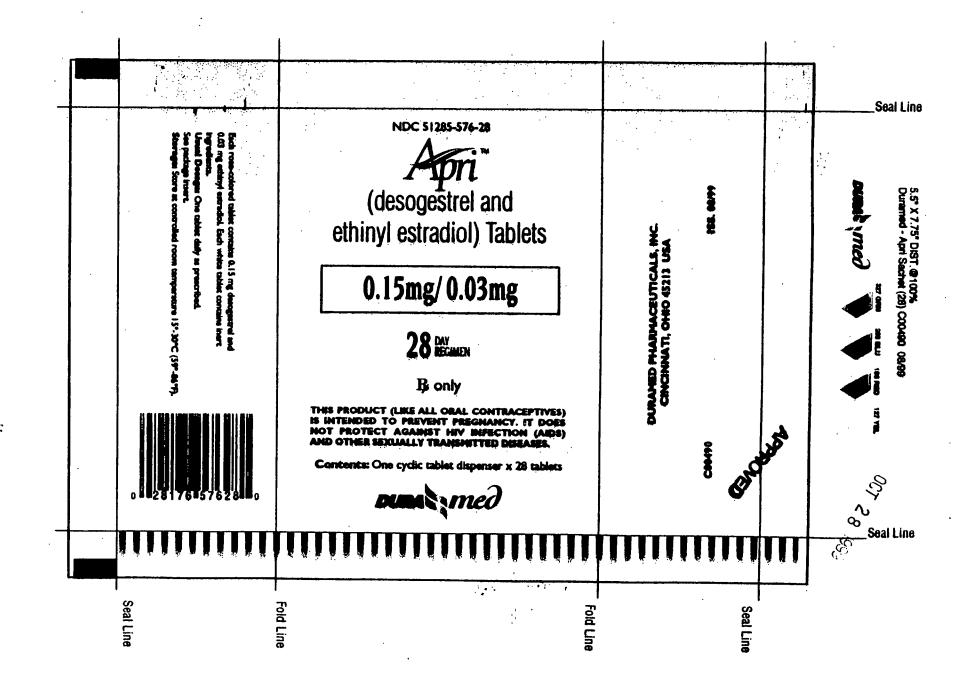






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DETAILED PATIENT LABELING

(desogestrel and ethinyl estradiol) Tablets

28 and 21 Day Regimens

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તામ્યુલિવામાં લાકે લાક કરે કે કરતોનાથી વિકલ ધાલા **ભાગમાં છે. જેમાં** કુલ કે કે, કર્યો "This product (like all oral contraceptives) is intended to prevent pregnancy. 'IT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES.

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DURAMED PHARMACEUTICALS, INC. CINCINNATI, OHIO 45213 USA

100351A

REV. 08/99

PLEASE NOTE: This labeling is revised from time to time as important new medical information becomes available. Therefore, please review this labeling carefully.

The following grai contraceptive products contain a combination of progestogen and estrogen, the two kinds of female hormones;

Apri (desogestrel and ethinyl estradici) Tablet 28 Day Regimen Blister Card Each rose-colored tablet contains 0.15 mg desogestrel and 0.03 mg ethinyl estradiol. Each white tablet contains inert ingredients.

April (desonestral and ethinyl estradiol) Tablet 21 Day Regimes Bilster Card Each rose-colored tablet contains 0.15 mg desogestrel and 0.03 mg ethinyl estradiol.

INTRODUCTION

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Any woman who considers using oral contraceptives (the birth control pill or the pill) should understand the benefits and risks of using this form of birth control. This patient labeling will give you much of the information you will need to make this decision and will also help you determine if you are at risk of developing any of the serious side effects of the pill. It will tell you how to use the pill properly so that it will be as effective as possible. However, this labeling is not a replacement for a careful discussion between you and your doctor or clinic. You should discuss the information provided in this labeling with him or her, both when you first start taking the pill and during your revisits. You should also follow your doctor's or clinic's advice with regard to reqular check-ups while you are on the pill.

EFFECTIVENESS OF ORAL CONTRACEPTIVES

Oral contraceptives or "birth control pills" or "the pill" are used to prevent pregnancy and are more effective than other non-surgical methods of birth control. When they are taken correctly, the chance of becoming pregnant is less than 1% (1 pregnancy per 100 women per year of use) when used perfectly, without missing any pills. Typical failure rates are actually 3% per year. The chance of becoming pregnant increases with each missed pill during a menstrual

In comparison, typical failure rates for other non-surgical methods of birth control during the first year of use are as follows:

implant: Injection: IUD: 1 to 2% Diaphragm with spermicides: Spermicides alone: 18% 21% Vaginal sponge: 18 to 36% to the lungs. These risks are preater with desogestrel-containing oral contraceptives, such as Apri (desogestrel and ethinyl estradiol) tablets, than with other low-dose pills. Rarely, clots occur in the blood vessels of the eye and may cause blindness, double vision, or impaired vision.

If you take oral contracentives and need elective surpery, need to stay in bed for a prolonged litness or have recently delivered a baby, you may be at risk of developing blood clots. You should consult your doctor or clinic about stopping oral contraceptives three to four weeks before surgery and not taking oral contraceptives for two weeks after surgery or during bed rest. You should also not take oral contraceptives soon after delivery of a baby. It is advisable to wait for at least four weeks after delivery if you are not breast feeding or four weeks after a second trimester abortion. If you are breast feeding, you should walt until you have weared your child before using the bill. (See also the section on Breast Feeding in General Precautions.)

The risk of circulatory disease in oral contraceptive users may be higher in users of high dose pills and may be greater with longer duration of oral contraceptive use. In addition, some of these increased risks may continue for a number of years after stopping oral contraceptives. The risk of abnormal blood clotting increases with age in both users and nonusers of oral contraceptives. but the increased risk from the oral contraceptive appears to be present at all ages. For women aged 20 to 44 it is estimated that about 1 in 2,000 using oral contraceptives will be hospitalized each year because of abnormal clotting. Among nonusers in the same age group, about 1 in 20,000 would be hospitalized each year. For oral contraceptive users in general, it has been estimated that in women between the ages of 15 and 34 the risk of death due to a circulatery disorder is about 1 in 12,000 per year, whereas for nonusers the rate is about 1 in 50,000 per year. In the age group 35 to 44, the risk is estimated to be about 1 in 2,500 per year for oral contraceptive users and about 1 in 10,000 per year for nonusers.

2. Heart ottacks and strokes

Oral contraceptives may increase the tendency to develop strokes (stoppage or rupture of blood vessels in the brain) and angina pectoris and heart attacks (blockage of blood vessels in the heart). Any of these conditions can cause death or serious disability.

Smolding greatly increases the possibility of suffering heart attacks and strokes. Furthermore, smoking and the use of oral contraceptives greatly increase the chances of developing and dving of heart disease.

3. Railhtaddar diseasa

Oral contraceptive users probably have a greater risk than nonusers of having gallbladder disease, although this risk may be related to pills containing high doses of estrogens.

4. Liver tumors

In rare cases, oral contraceptives can cause benign but dangerous liver

over the age of 35, the estimated number of deaths exceeds those for other methods of birth control. If a woman is over the age of 40 and smokes, her estimated risk of death is four times higher (117/100,000 women) than the estimated risk associated with pregnancy (28/100,000 women) in that age

The suggestion that women over 40 who do not smoke should not take oral contraceptives is based on information from older, higher-dose pills. An Advisory Committee of the FDA discussed this Issue in 1989 and recommended that the benefits of low-dose oral contraceptive use by healthy, non-smoking women over 40 years of age may outwelch the possible risks.

WARMING SIGNALS

If any of these adverse effects occur while you are taking oral contraceptives. call your doctor or clinic immediately:

- . Sharp chest path, coughing of blood, or sudden shortness of breath (indicating a possible clot in the lung)
- Pain in the calf (indicating a possible clot in the leg)
- · Crushing chest pain or heaviness in the chest (indicating a possible heart attack)
- Sudden severe headache or vomiting, dizziness or fainting, disturbances of vision or speech, weakness, or numbness in an arm or led (indicating a possible stroke)
- . Sudden partial or complete loss of vision (indicating a possible clot in the
- . Breast lumps (Indicating possible breast cancer or fibrocystic disease of the breast; ask your doctor or clinic to show you how to examine your
- . Severe pain or tenderness in the stomach area (Indicating a possibly ruptured liver turnor)
- . Difficulty in sleepings weakness, lack of energy, fatigue, or change in mood (possibly indicating severe depression)
- . Jaundice or a vellowing of the skin or eveballs, accompanied frequently by fever, fatigue, loss of appetite, dark colored urine, or light colored bowel movements (indicating possible liver problems)

SIDE EFFECTS OF ORAL CONTRACEPTIVES

1. Vaoinal bleeding

Irregular vaginal bleeding or spotting may occur while you are taking the pills. Irregular bleeding may vary from slight staining between menstrual periods to breakthrough bleeding which is a flow much like a regular period. Irregular bleeding occurs most often during the first few months of oral contraceptive use, but may also occur after you have been taking the pill for some time. Such bleeding may be temporary and usually does not indicate any serious probCérvice/ Cap: 18 to 35%
Condom alone (male): 12%
Condom alone (female): 21%
Periodic abstinence: 20%
No methods: 85%

WHO SHOULD NOT TAKE ORAL CONTRACEPTIVES

Cigarette smoking increases the risk of serious cardiovascular side effects from oral contraceptive use. This risk increases with age and with heavy smoking (15 or more cigarettes per day) and is quite marked in women ever 35 years of age. Women who use oral contraceptives are strongly advised not to smoke.

Some women should not use the pill. For example, you should not take the pill if you are pregnant or think you may be pregnant. You should also not use the pill if you have any of the following conditions:

- . A history of heart attack or stroke
- Blood clots in the legs (thrombophlebitis), lungs (pulmonary embolism), or
- · A history of blood clots in the deep veins of your legs
- Chest pain (angina pectoris)
- Known or suspected breast cancer or cancer of the lining of the uterus, cervix or vagina
- . Unexplained vaginal bleeding (until a diagnosis is reached by your doctor)
- Yellowing of the whites of the eyes or of the skin (jaundice) during pregnancy or during previous use of the pill
- . Liver tumor (benign or cancerous)
- . Known or suspected pregnancy

Tell your doctor or clinic If you have ever had any of these conditions. Your doctor or clinic can recommend a safer method of birth control.

OTHER CONSIDERATIONS BEFORE TAKING ORAL CONTRACEPTIVES

Tell your doctor or clinic if you have or have had:

- Breast nodules, fibrocystic disease of the breast, an abnormal breast x-ray or mammogram
- Diabetes
- · Elevated cholesterol or triglycerides
- High blood pressure
- . Migraine or other headaches or epilepsy
- Mental depression
- · Gafibladder, heart or kidney disease
- . History of scarty or irregular menstrual periods

Women with any of these conditions should be checked often by their doctor or clinic if they choose to use oral contraceptives.

Also, be sure to inform your doctor or clinic if you smoke or are on any medleations.

RISKS OF TAKING GRAL CONTRACEPTIVES

1. Risk of developing blood clots

Blood clots and blockage of blood vessels are one of the most serious side effects of taking oral contraceptives and can cause death or serious disability. In particular, a clot in one of the legs can cause thrombophlebitis and a clot that travels to the lungs can cause a sudden blocking of the vessel carrying blood

tumors. These benign liver tumors can rupture and cause fatal internal bleeding. In addition, a possible but not definite association has been found with the pill and liver cancers in two studies, in which a few women who developed these very rare cancers were found to have used oral contraceptives for long periods. However, liver cancers are rare.

5. Cancer of the reproductive organs and breasts

There is conflict among studies regarding breast cancer and oral contraceptive use. Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be related to duration of use. The majority of studies have found no overall increase in the risk of developing breast cancer.

Some studies have found an increase in the incidence of cancer of the cervix in women who use oral contraceptives. However, this finding may be related to factors other than the use of oral contraceptives. There is insufficient evidence to rule out the possibility that pills may cause such cancers.

ESTIMATED RISK OF DEATH FROM A BIRTH CONTROL METHOD OR PREG-MAINCY

All methods of birth control and pregnancy are associated with a risk of developing certain diseases which may lead to disability or death. An estimate of the number of deaths associated with different methods of birth control and pregnancy has been calculated and is shown in the following table.

AMMUAL NUMBER OF BERTH-RELATED OR METHOD-RELATED DEATHS ASSOCIATED WITH CONTROL OF FERTILITY PER 100,000 NON-STERILE WOMEN, BY FERTILITY CONTROL METHOD ACCORDING TO AGE

Method of control and extrome	15-19	20-24	25-29	30-34	35-39	40-44
No fertility control methods*	7.0	7.4	9.1	14.8	25.7	28.2
Oral contraceptives non-smoker**	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives smoker**	2.2	3.4	6.6	13.5	51.1	117.2
IUD**	0.8	0.8	1.0	1.0	1.4	1.4
Condom*	1.1	1.6	0.7	0.2	0.3	0.4
Diaphragm/spermicide*	1.9	1.2	1.2	1.3	2.2	2.8
Periodic abstinence	2.5	1.6	1.6	1.7	2.9	3.6

- * Deaths are birth related
- ** Deaths are method related

In the preceding table, the risk of death from any birth control rilethod is less than the risk of childbirth, except for oral contraceptive users over the age of 35 who smoke and pill users over the age of 40 even if they do not smoke. It can be seen in the table that for women aged 15 to 39, the risk of death was highest with pregnancy (7-26 deaths per 100,000 women, depending on age). Among pill users who do not smoke, the risk of death was always lower than that associated with pregnancy for any age group, although over the age of 40, the risk increases to 32 deaths per 100,000 women, compared to 28 associated with pregnancy at that age. However, for pill users who smoke and are

lems. It is important to comtinue taking your pills on schedule. If the bleeding occurs in more than one cycle or lasts for more than a few days, talk to your doctor or clinic.

2. Contact lenses

If you wear contact lenses and notice a change in vision or an inability to wear your lenses, contact your doctor or clinic.

3. Floid retention

Oral contraceptives may cause edema (fluid retention) with swelling of the fingers or ankles and may raise your blood pressure. If you experience fluid retention, contact your doctor or clinic.

4. Melasma

A spotty darkening of the skin is possible, particularly of the face, which may persist.

5. Other side effects

Other side effects may include nausea and vomitting, change in appetite, headache, nervousness, depression, dizziness, loss of scalp hair, rash, and vaginal infections.

If any of these side effects bother you, call your doctor or clinic.

REMERAL PRECAUTIONS

Missed periods and use of oral contraceptives before or during early pregnancy

There may be times when you may not menstruate regularly after you have completed taking a cycle of pills. If you have taken your pills regularly and miss one menstrual period, continue taking your pills for the next cycle but be sure to inform your doctor or clinic before doing so. If you have not taken the pills daily as instructed and missed a menstrual period, you may be pregnant. If you missed two consecutive menstrual periods, you may be pregnant. Check with your doctor or clinic immediately to determine whether you are pregnant. Do not continue to take oral contraceptives until you are sure you are not pregnant, but continue to use another method of contraception.

There is no conclusive evidence that oral contraceptive use is associated with an increase in birth defects, when taken inadvertently during early pregnancy. Previously, a few studies had reported that oral contraceptives might be associated with birth defects, but these findings have not been seen in more recent studies. Nevertheless, oral contraceptives or any other drugs should not be used during pregnancy unless clearly necessary and prescribed by your doctor or clinic. You should check with your doctor or clinic about risks to your unborn child of any medication taken during pregnancy.

2. While breast feeding

If you are breast feeding, consult your doctor or clinic before starting oral contraceptives. Some of the drug will be passed on to the child in the milk. A few adverse effects on the child have been reported, including yellowing of the skin (gundice) and breast enlargement. In addition, oral contraceptives may decrease the amount and quality of your milk. If possible, do not use oral contraceptives while breast feeding. You should use another method of contraception since breast feeding provides only partial protection from becoming pregnant and this partial protection decreases significantly as you breast feed for longer periods of time. You should consider starting oral contraceptives only after you have weaned your child completely.

If you are scheduled for any laboratory tests, tell your doctor or clinic you are taking birth control pills. Certain blood tests may be affected by birth control

4. Drng interactions

Certain drugs may interact with birth control pills to make them less effective in preventing pregnancy or cause an increase in breakthrough bleeding. Such drugs include rifampin, drugs used for epilepsy such as barbiturates (for example, phenobarbital), anticonvulsants such as carbamazenine (Tegretol is one brand of this drug), phenytoin (Dilantin is one brand of this drug), phenylbutazone (Butazolidin is one brand), and possibly certain antibiotics. You may need to use additional contraception when you take drugs which can make oral contraceptives less effective.

5. Sexually transmitted diseases

This product (like all oral contraceptives) is intended to prevent pregnancy. It does not protect against transmission of HIV (AIDS) and other sexually transmitted diseases such as chlamydia, genital herpes, genital warts, gonorrhea, hepatitis B, and syphilis.

HOW TO TAKE THE PILL IMPORTANT POINTS TO REMEMBER

BEFORE YOU START TAKING YOUR PILLS: 1. BE SURE TO READ THESE DIRECTIONS:

Before you start taking your pills.

Anytime you are not sure what to do.

2. THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THE SAME TIME.

If you miss pills you could get pregnant. This includes starting the pack late. The more pills you miss, the more likely you are to get pregnant.

3. MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK

TO THEIR STOMACH DURING THE FIRST 1-3 PACKS OF PILLS. If you feel sick to your stomach, do not stop taking the pill. The problem will usually go away. If it doesn't go away, check with your doctor or clinic.

4. MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING, even when you make up these missed pills. On the days you take 2 pills to make up for missed pills, you could also feel a little sick to your stomach

5. IF YOU HAVE VOMITING OR DIARRHEA, for any reason, or IF YOU TAKE SOME MEDICINES, including some antibiotics, your pills may not work as

Use a back-up method (such as condoms, foam, or sponge) until you check with your doctor or clinic

6. IF YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your doctor or clinic about how to make pill-taking easier or about using another method of birth control.

7. IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMA-TION IN THIS LEAFLET, call your doctor or clinic.

BEFORE YOU START TAKING YOUR PILLS:

1. DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL. It is important to take it at about the same time every day.

2. LOOK AT YOUR PILL PACK TO SEE IF IT HAS 21 OR 28 PILLS:

The 21-pill pack has 21 "active" [rose-colored] pills (with hormones) to take for 3 weeks, followed by 1 week without pills.

The 28-pill pack has 21 "active" [rose-colored] pills (with hormones) to take

for 3 weeks, followed by 1 week of reminder [white] pills (without hormones).

3. ALSO FIND:

1) where on the pack to start taking the pills.

2) in what order to take the pills (follow the arrows) and

3) the week numbers printed on the pack.

SUNDAY START:

1. Take the first "active" (rose-colored) pill of the first pack on the Sunday after your period starts, even if you are still bleeding. If your period begins on -Sunday, start the pack that same day.

2. Use another method of birth control as a back-up method if you have sex anytime from the Sunday you start your first pack until the next Sunday (7 days). Condems, foam, or the sponge are good back-up methods of birth control

WHAT TO DO DURING THE MONTH: 1. TAKE ONE PILL AT THE SAME TIME EVERY DAY UNTIL THE PACK IS

Do not skip pills even if you are spotting or bleeding between monthly periods or feel sick to your stomach (nausea).

Do not skip pills even if you do not have sex very often. 2. WHEN YOU FHISH A PACK OR SWITCH YOUR BRAND OF PILLS:

21 pills: Wait 7 days to start the next pack. You will probably have your period during that week. Be sure that no more than 7 days pass between 21-day packs.

28 pills: Start the next pack on the day after your last "reminder" pill. Do not wait any days between packs.

WHAT TO DO IF YOU MISS PRLS:

If you MISS 1 (rose-colored) "active" pill:

1. Take it as soon as you remember. Take the next pill at your regular time. This means you take 2 pills in 1 day.

2. You do not need to use a back-up birth control method if you have sex. If you MISS 2 [rose-colored] "active" pilts in a row in WEEK 1 OR WEEK 2 of your pack:

1. Take 2 pills on the day you remember and 2 pills the next day. -

2. Then take 1 pill a day until you finish the pack.

3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.

If you MISS 2 [rose-colored], "active" pills in a row in THE 3RD WEEK:

1. If you are a Day 1 Starter:

THROW OUT the rest of the pill pack and start a new pack that same day. If you are a Sunday Starter;

Keep taking 1 pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

2. You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be pregnant.

3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss

You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.

If you MISS 3 OR MORE [rose-colored] "active" pills in a row (during the first 3 weeks):

1. If you are a Day 1 Starter:

THROW OUT the rest of the pill pack and start a new pack that same day. If you are a Sunday Starter.

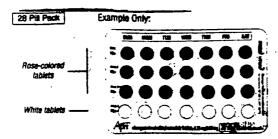
Keep taking 1 pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills

2. You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be pregnant

3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss

You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.



4. BE SURE YOU HAVE READY AT ALL TIMES: ANOTHER KIND OF BIRTH CONTROL (such as condoms, foam, or sponge) to use as a back-up in case you miss pills. AN EXTRA. FULL PILL PACK.

WHEN TO START THE FIRST PACK OF PILLS:

You have a choice of which day to start taking your first pack of pills. Decide with your doctor or clinic which is the best day for you. Pick a time of day which will be easy to remember.

DAY 1 START:

- Pick the day label strip that starts with the first day of your period (this is the day you start bleeding or spotting, even if it is almost midnight when the bleeding begins.)
- Place this day label strip in the cycle tablet dispenser over the area that has the days of the week (starting with Sunday) printed on the bilster card.

Pick Correct Day Label THU FRI SAT SUN MON TUE WED

Peel and place label here.

Example Only:

Note: if the first day of your period is a Sunday, you can skip steps #1 and #2.

3. Take the first "active" [rose-colored] pill of the first pack during the first 24 hours of your period.

 You will not need to use a back-up method of birth control, since you are starting the pill at the beginning of your period.

A REMINDER FOR THOSE ON 28 DAY PACKS:

If you forget any of the 7 [white] "reminder" pills in Week 4: THROW AWAY the pills you missed. Keep taking 1 pill each day until the pack is empty. You do not need a back-up method.

FINALLY, IF YOU ARE STILL NOT SURE WHAT TO DO ABOUT THE PILLS YOU HAVE MISSED:

Use a BACK-UP METHOD anytime you have sex.

KEEP TAKING ONE [rose-colored] "ACTIVE" PILL EACH DAY until you can reach your doctor or clinic.

PREGNANCY DUE TO PILL FAILURE

The incidence of pill failure resulting in pregnancy is approximately one percent (i.e., one pregnancy per 100 women per year) if taken every day as directed, but more typical failure rates are about 3%. If failure does occur, the risk to the fetus is minimal.

PREGNANCY AFTER STOPPING THE PILL

There may be some datay in becoming pregnant after you stop using oral contraceptives, especially if you had irregular menstrual cycles before you used oral contraceptives. It may be advisable to postpone conception until you begin menstruating regularly once you have stopped taking the pill and desire pregnancy.

There does not appear to be any increase in birth defects in newborn babies when pregnancy occurs soon after stopping the pill.

OVERDOSAGE

Serious ill effects have not been reported following ingestion of large doses of oral contraceptives by young children. Overdosage may cause nausea and withdrawal bleeding in females. In case of overdosage, contact your doctor, clinic or pharmacist.

OTHER INFORMATION

Your doctor or clinic will take a medical and family history before prescribing oral contraceptives and will examine you. The physical examination may be delayed to another time if you request it and your doctor or clinic believes that it is a good medical practice to postpone it. You should be reexamined at least once a year. Be sure to inform your doctor or clinic if there is a family history of any of the conditions listed previously in this leaflet. Be sure to keep all appointments with your doctor or clinic because this is a time to determine if there are early signs of side effects of oral contraceptive use.

Do not use the drug for any condition other than the one for which it was prescribed. This drug has been prescribed specifically for you; do not give it to others who may want birth control pills.

HEALTH BENEFITS FROM ORAL CONTRACEPTIVES

In addition to preventing pregnancy, use of combination oral contraceptives may provide certain benefits. They are:

- · menstrual cycles may become more regular
- blood flow during menstruation may be lighter and less iron may be lost.
 Therefore, anemia due to iron deficiency is less likely to occur.

pain or other symptoms during menstruation may be encountered less frequently.

ectopic (tubal) pregnancy may occur less frequently.

noncancerous cysts or lumps in the breast may occur less frequently.

acute pelvic inflammatory disease may occur less frequently.

oral contraceptive use may provide some production against developing two forms of cancer: cancer of the ovaries and cancer of the lining of the uterus.

If you want more information about birds control pills, ask your doctor, clinic or pharmacist. They have a more technical leaflet called the Professional Labeling which you may wish to read. The Professional Labeling is also published in a book entitled Physiological Desk Reference, available in many book stores and public libraries.

DURAMED PHARMAGEUTICALS, INC. CINCINNATI, OHIO 45213 USA

REV. 88/89

(desogestrel and ethinyl estradiol) Tablets (desogestrel and ethinvl estradiol) Tablets

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THIS PRODUCT (LHE ALL GRAL CONTRACEPTIVES) IS INTENDED TO PREVENT PREGNANCY. IT DOES NOT PROTECT AGAINST HE INTERCTION (AND ARE OTHER SEXUMLY TRANSPORTED RESERVES.